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A TECHNIQUE FOR REMOVING PULMONARY EMBOLI

By Arnold K. Henry, M.B. Dubl., M.Ch. (Hon.) Cairo, F.R.C.S.I.

EMERITUS PROFESSOR OF CLINICAL SURGERY IN THE UNIVERSITY OF EGYPT; READER IN SURGERY IN THE UNIVERSITY OF LONDON, AT THE BRITISH POSTGRADUATE MEDICAL SCHOOL

In the past eight months I have performed pulmonary embolectomy on three patients, and, though none was saved, a procedure has taken shape from these attempts which serves at least to meet some of my own difficulties.

FIRST OPERATION

The first operation, except for one detail, followed tradition. Four inches of second left rib and cartilage were resected through a T-shaped incision; and, after the medial edge of the pleural sac had been displaced outwards by gauze dissection, an opening was made in the pericardium. The special hooked sound then looped a rubber tube through the tunnel of the transverse sinus behind the aorta and pulmonary artery. With both vessels thus controlled I opened the blue and bulging pulmonary trunk and drew out a long clot, using the bulky forceps supplied for this purpose. The lips of the opening in the artery were held with small hæmostats. Cardiac movement ceased as the patient reached the theatre, only returning after fifteen minutes—a tardy response to the combination of two restorative measures, injection of the left auricle with adrenaline and compression of the heart at systolic intervals between a hand inside the chest and one passed under the diaphragm by laparotomy. Meanwhile artificial respiration with carbon dioxide and oxygen was maintained by the anæsthetist. A pulse presently beat at the wrist and was felt for an hour; for this hour, too, the dulled eyes became living and bright; then the patient died suddenly. It is worth note that, once the clot was out, crossing the hæmostats on the lips of the pulmonary opening checked bleeding from this source and gave leisure to close the vessel. No use, therefore, was made of the special clamp designed in the original technique to seal the opening between removals of clot and during final suture.

Slight delays in passing the hooked sound through the transverse sinus and fastening on its rubber tube led me to relinquish their use (fig. 1).

There are two sources of delay. (1) Even with practice it is not always easy to deliver the end of the retrieving sound to make fast the rubber tube; the end will sometimes hide behind the sternal edge or engage pericardium. (2) In haste one may screw the bayonet catch of the tube into the sound while—wrongly—holding the rubber tube itself; the catch snaps out when the tube untwists. This has happened to at least three other surgeons (Nyström 1930). The vessels, too, have been wounded by the sound or injured by the tube; even the right auricle has been opened. Lake (1927) used his finger for hooking up the vessels when no sound was available.

It was just as easy to pass a finger through the sinus in cadavers and then hook up and handle aorta and pulmonary artery. Thus I came to question the need of occluding both these main trunks, for I could hold at pleasure the pulmonary with finger and thumb and free the aorta. But tradition blinds; and forceful use of the transverse sinus—with fingers now instead of tube—still seemed the way to gain control of the pulmonary trunk.

It is well, however, to know how to find the transverse sinus, if only to tell pulmonary trunk from aorta. More than once the wrong vessel has been opened, for the aorta may be pulled in front of the pulmonary by the tube or because of sclerosis be mistaken for pulmonary filled with clot; the aorta can even be hooked up separately by anyone really determined. But books still fail to guide the tyro. I have found each of the following methods useful in locating the sinus: (1) the right index finger, slid vertically inside the pericardium opposite the second rib and kept in contact with the lining of the left wall of the sac, crosses over the left auricular appendix and goes straight into the sinus; (2) outward retraction of the left wall of the pericardium brings to view the blunt, free tip of the appendix; a finger enters the sinus a little behind and medial to this landmark. The pulmonary artery is the trunk next the left end of the sinus.

SECOND OPERATION

My second operation was performed shortly after these experiments. This time the patient's heart beat when the chest was opened, but it stopped at once when I passed a finger into the sinus and hooked up the two great vessels. I immediately let slip the aorta and kept hold of the pulmonary trunk. Emboli had already reached its smaller branches; and, though most were removed in the way described presently, the outlook for the patient—even from the standpoint of pulmonary embolectomy—could only be desperate. This time I discarded the special clot-forceps that seemed so large in the previous case and used an aspirator instead; attached was a cannula (fig. 1) curved to the shape of a favourite dissecting scissors, which happened, when introduced from the main trunk in cadavers, to enter, like sword into sheath, branches arising from the right and left pulmonary arteries.

I had found, through the courtesy of Dr. T. H. Belt, that with this cannula the aspirator, in dead lungs, removed emboli from small branches and in my second case was able to extract, as I have said, most of the peripheral clot. But the real virtue of the aspirator—at least as yet—is not in these peripheral extractions; at present it seems impossible to save a patient who has been gradually overcome by clots that reach remoter branches; advantage lies in the cannula entering a small and easily controlled incision in the main trunk and then cleaving at once by suction to adjacent clot, which may either stick in its mouth and thus be drawn out or else pass on through the lumen. Nyström (1930) has long used aspiration for removing pulmonary emboli and cites Trendelenburg as using it many years before him in animal experiments.

An unexpected source of delay in this case was the peculiar depth and density of the propericardial tissue—rich, perhaps, in thymic remains—which appeared on retracting the pleura. After opening through this tissue I lost time in taking the smooth face of pericardium for one of the great vessels masked by pathological fat; I had till then not learnt to rely on the likeness of pericardial wall to thin dural membrane as sure guidance for opening the sac.

THIRD OPERATION

The third patient—like the second—was alive in the early part of the operation, though obviously dying. The heart stopped immediately after the pericardium was incised.

Prof. B. O. Pribram tells me that he too, on opening the pericardium, has seen the heart stop and require massage to restore its beat. Others have stopped it, as I did in my second case, by hooking up aorta and pulmonary artery. It would be well to know how these stimuli act, and meanwhile, perhaps, to atropinise the patient thoroughly before operation.

This time I did not hook up or disturb the aorta; it was, however, easy to grasp and control the pulmonary artery separately between finger and thumb while I made a short opening in its wall. The lips of this opening were caught with delicate hæmostats, and the cannula after a moment's check found the way in (figs. 2 and 3). There were no clots in the main trunk, but several were sucked from right and left branches and quickly reached the flask of the aspirator. I thought afterwards how useful a manual control would have been with which I could interrupt aspiration myself and then redirect the cannula while circulation continued round it.

It is by no means difficult to stop hæmorrhage from the pulmonary artery where pressure averages a fifth of that of systemic trunks and through sympathetic influence may rise during systole to perhaps 50–60 mm. Hg. Mr. R. Shackman and I have found by experiment on fresh post-mortem material that the crossing of two hæmostats placed on the lips of the small opening by which the cannula enters prevents leakage, even if pressure within the vessel is equal to the maximum likely in normal life. At the low pressures, therefore, that go with pulmonary embolus risk of hæmorrhage is small indeed. None the less, however, in operating on our patients we took care to reinforce closure by pressing the lips of the opening with finger and thumb against the wall of the cannula (fig. 4).

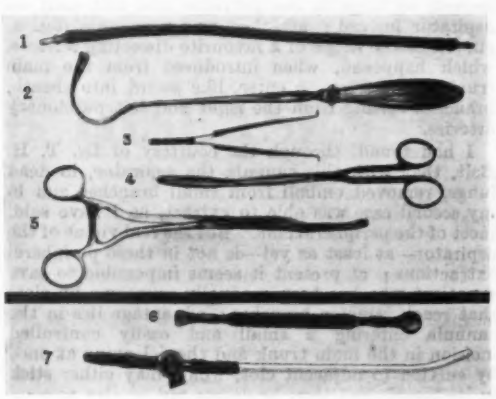


FIG. 1—*Above the line:* classical instruments which, together with similar derivative tools, are *not employed* in the technique described here: (1) rubber-tube tourniquet; (2) hooked 'sound' which retrieves tourniquet; (3) dilator of the arterial opening; (4) forceps for removing clot; (5) clamp for closing the vessel between exploration for clot and during suture.

Below the line:—Special instruments *employed:* (6) A. W. Meyer's rib-rugine; (7) cannula with wide pressure-tubing for attachment to an aspirator, used instead of forceps for removing clot. A tap is attached for controlling aspiration. (Nyström uses a one-piece cannula and clot-receiver. I prefer the receiver attached by tubing so that the cannula can turn through two right angles.)

A DRAFT OF TECHNIQUE

The following provisional scheme, based on my three operations, will serve for epitome.

(1) *Skin preparation.*—As soon as operation is even considered, prepare the whole front of the chest and upper part of the abdomen.

(2) *Local anæsthesia.*—If likelihood of operation increases, infiltrate a triangle whose base on the left edge of the sternum measures a liberal span from the sternoclavicular joint, and whose apex lies a span out along the second left rib. The epigastrium, too, should be injected in view of cardiac massage. (My second and third operations were performed under local anæsthesia.)

(3) *Incision* is T-shaped; it cuts down on seven inches of sternal border and on seven of second rib and cartilage. (Beginners—for fear of opening pleura—should by no means follow the expert who cuts between ribs.) The flaps of skin and pectoral muscle are then turned back from the costal plane widely enough to let the operator proceed unhampered from this new surface and so reduce the working depth of the wound. It is prudent to open the epigastrium at this stage.

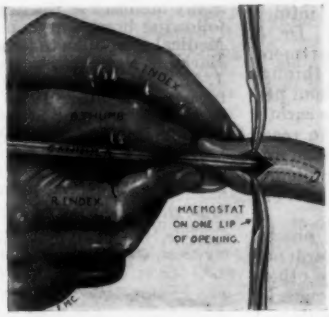
(4) *Resecting the second left rib and cartilage.*—After superficial division, above and below, of intercostal muscles, begin with the cartilage, near the sternum. In this place a streak of fat clothes the internal mammary vessels, which lie deep to the cartilage, and with them keeps the pleura far enough off to give a safe plane of cleavage to Meyer's rugine—the only special tool I care to retain from the embolectomy set (fig. 1). Divide the sternal end of the cartilage and use it for drawing the rib gently away from the pleura while Doyen's curved raspatory helps a finger to finish the extraperiosteal separation. Resect at least six inches of rib-plus-cartilage—a wide removal which gives the great advantage of oblique access.

(5) *Exposure of the pericardium.*—With the pulp of the finger draw the edge of the left pleural sac outwards. To do this without opening the pleura choose a spot at the lower border of the first costal cartilage and work a finger in gently under the mammary vessels, then under the manubrium. Aim the finger so as to reach the middle point of the manubrium, and, when that point is reached, but not till then, flex the finger and begin to mobilise and retract the pleural edge; for there the left sac leaves its fellow and goes to its own apex. This is only another use of the old trick of tracing planes of cleavage from the place where structures part, and after learning to apply it here I never opened the pleura once in all the material put so generously at my disposal by Prof. J. H. Dible; nor was it opened in any of my three patients.* A very little care leaves the internal mammary vessels unharmed and close to the sternum. The gap left by the wide resection of rib allows the apex of the lung to be mobilised and then flattened in a posterior direction within the sac of the pleura, a flattening which liberates the side of the pericardial cone and so gives better access to the pulmonary trunk, which slopes backwards. Withdrawing the pleura reveals a variable thickness of propericardial fat, which is sometimes pink and feebly vascular; pick this up in forceps and divulse it boldly with blunt-nosed scissors down to the smooth unmistakable face of pericardium.

* Behind the sternal *body*, on the other hand, the two pleural sacs are sometimes in wide apposition; separation there is done at great disadvantage.

2

3



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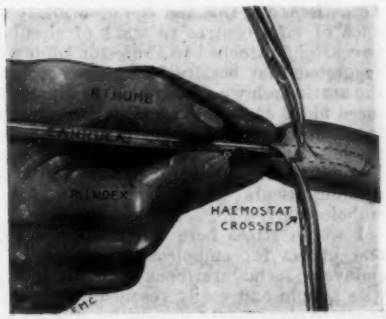

FIG. 2.—The pulmonary trunk controlled immediately before opening the vessel. Only the surgeon's fingers are shown. The right index in the transverse sinus locates and steadies the trunk, while the first assistant picks up a fold of its front wall with a fine-toothed forceps. The surgeon withdraws his right index from the sinus and uses his right hand to open the artery. Then, and not till then, he occludes the lumen between left thumb and index. If the artery wall is friable, the finger of a second assistant should replace the surgeon's in the sinus to relieve strain by supporting the vessel. The aorta is not disturbed nor is the pulmonary trunk hooked up.

FIG. 3.—The pulmonary trunk is opened and the cannula passed. The lumen of the trunk is still momentarily occluded by the surgeon's left thumb and index. He has opened the vessel by cutting through the fold (fig. 2). The first assistant has caught each lip of the opening with a Dunhill hæmostat.

FIG. 4—Prevention of leakage. The momentary occlusion of the trunk's lumen has ceased. The first assistant has crossed the hæmostats to prevent leakage. The surgeon, after releasing the lumen, is now using his left thumb and index to fix and further seal the opening by pressing its lips against the cannula.

(6) *Opening the pericardium.*—Catch this membrane near the sternal edge with a fine-toothed forceps; open it longitudinally for at least three inches with the same scissors and expose the conus arteriosus of the right ventricle in company with the great trunks.

(7) *Catching and opening the pulmonary artery.*—Slide the tip of the right index into the transverse sinus (see the description of the first operation) and locate and steady, but do not hook up, the pulmonary trunk (fig. 2). The assistant, standing on the right of the patient, then catches the middle part of the artery with a fine-toothed forceps held in his left hand, making a small transverse fold in its anterior wall (fig. 2). The surgeon withdraws his right finger from the sinus and occludes the stem of the pulmonary trunk between left thumb and index close to the heart. To prevent the forceps from tearing a friable trunk the surgeon's finger must be replaced in the sinus by that of a second assistant, who thus relieves strain by supporting the vessel. Scissors in the surgeon's right hand now cut longitudinally into the artery through the small transverse fold held by the first assistant. The opening in the vessel should be just large enough for the cannula. The scissors are then put down and the cannula is picked up. The first assistant, using his right hand, meanwhile grasps each lip of the opening with a delicate hæmostat, taking care to keep his original hold of the vessel with the toothed forceps till the second hæmostat is on (fig. 3). (I used Dunhill's goitre hæmostats for this purpose and found them excellent.) It is worth noting that some pericardia contain oily fluid, which makes the pulmonary trunk slippery; it might thus be well for the surgeon to wear cotton gloves over rubber ones.

(8) *Passage of the cannula, hæmostasis, and removal of clot.*—The surgeon, still occluding the lumen, passes the cannula through the opening. The first assistant then forestalls hæmorrhage by gently crossing the hæmostats over the cannula (fig. 4). This control of the opening is the cue for the surgeon to release his grasp of the lumen; he now uses his left thumb and index to press instead the wall of the vessel against the cannula to fix the opening and keep it shut when the cannula moves from branch to branch (fig. 4). A tap controls suction (fig. 1). Small clots go clean through the cannula; the large stick in the nozzle and can then be drawn out. By this method, therefore—with fingers and aspirator in place of tourniquet and clot-forceps—the lumen of the pulmonary trunk is only closed during the very few seconds required for opening the wall and passing the cannula in. Aspiration is stopped while the cannula moves from branch to branch, so that blood may circulate past it. (The directions of the main branches of the artery—the left almost perpendicular to the table; the right nearly horizontal—must be remembered.) There is at no time interference with the aorta; indeed, the hooking up of this trunk seems in retrospect an unnecessary act of violence.

(9) *Closing the incised artery.*—After removing the cannula, keep the hæmostats crossed at the lips of the opening and close the artery with mattress sutures. Then close the pericardium and chest wall.

RESTORING THE HEART BEAT

With due control of leakage from the arterial opening attempts at restoration may start the moment the clot is out. After injecting 1 c.cm. of adrenaline into the exposed left auricle, bimanual rhythmic compression is made between a hand introduced under the diaphragm by laparotomy and one in the thoracic opening. I intend, if further occasion offers, to try the arterial perfusion directed heartwards, described first by Crile and Dolley (1906) and revived by Kemp (1933). Instead of cutting down on the carotid in the neck and injecting fluid towards the heart, I should take advantage of the exposed aorta for running in the solution of calcium in normal saline, which consists of 0·25 c.cm. of a saturated solution of calcium chloride in a litre of saline and comes, oxygenated at body temperature, from a funnel 6½ ft. above the patient. The object is to exploit the stimulus of filling the coronary vessels.

But oxygenated blood, perhaps, might prove a better vehicle than saline for the calcium ion ; and while we were discussing this and the notoriously swift intolerance of vital centres to want of circulation, Dr. J. Greenstein, attached to Professor Dible's department, suggested that besides filling the coronaries through the aortic arch we should also, or especially, send perfused blood at normal pressure directly up the carotid trunk and so feed the medulla. It is easy to reach the left carotid, together with the left subclavian and innominate trunks, through the simple extrapleural opening made in the operation for pulmonary embolectomy.

I would stress here the need of training oneself and others for embolectomy on fresh unhardened cadavers ; formalin stiffens and withdraws parts otherwise supple and easily reached, while stale material tends to exaggerate difficulties due to friability. I have had recently to demonstrate the operation on preserved cadavers ; in all but one of them the heart and great vessels had withdrawn to the right and backwards. Even in that awkward abnormal situation it was easy to gain separate control of the pulmonary trunk—not indeed as usual with left thumb and index but between the two index fingers of an assistant standing on the right side of the subject. Approach in a difficult case of this sort, or in any case, is greatly helped by tilting the chest with a pillow under the left scapula. The surgeon will then appreciate in full the value of oblique access given by a really wide removal of the second rib.

Lastly, one may perhaps question the word "embolectomy" ; the clot is not cut out by forceps, still less by the aspirator. Ectomies remove colons ; but we do not practise nephrolithectomy when removing stone. Why then confuse the term by making it signify an act of removing loose clot ?

SUMMARY

Attention is called to certain points in the operation for removing pulmonary clot.

Flaps are reflected widely enough to reduce working depth by making a new surface at the level of the ribs. The epigastrium is opened early for possible cardiac massage. Wide resection of the 2nd left rib gives oblique access to the pulmonary trunk, for through the large gap the lung apex can be mobilised and flattened backwards within its pleural sac. These parts are seen best when a pillow is put under the left scapula of the patient. The likeness to thin dura of pericardial wall helps the surgeon to find it through any thickness of propericardial fat.

Two methods of finding the transverse sinus are described. No sound or tourniquet is passed through it ; the sinus is used merely in locating and steadying the pulmonary trunk. The aorta is left undisturbed. The pulmonary trunk is separately controlled with the fingers ; it is not hooked up. An aspiring cannula, properly curved, is used instead of forceps for removing clot. The cannula requires only a short opening in the pulmonary trunk, and, when it enters the lumen, hæmostasis can be secured at once. The time during which fingers occlude the lumen of the trunk is thus reduced to the few seconds spent in making the opening and passing in the cannula. Bleeding from the pulmonary trunk after the introduction of the cannula is prevented by crossing the two hæmostats which have caught the lips of the opening in its wall; this is further sealed by pressing it against the cannula. A tap stops aspiration so that circulation may proceed while the cannula is redirected from branch to branch.

Suggestions are cited for restoring the heart beat by filling coronary vessels and for supplying medullary centres with blood during cardiac arrest.

The term "embolectomy" is questioned.

My special thanks are due to Prof. J. H. Dible, to Dr. T. H. Belt, and latterly to Dr. C. E. Newman for many facilities in the department of pathology. The following house-surgeons of the British Postgraduate Medical School have greatly helped me : Messrs. G. S. Barbour, B. R. Billimoria, E. E. Dunlop, M. Harty, and J. M. Yeates. I am indebted to Miss F. M. Collinson for her clear illustrations ; to Mr. J. Robson, technician in the department of surgery, for making the glass cannula ; and to Mr. V. Willmott for his photograph of instruments.

REFERENCES

Crile, G. W., and Dolley, D. H. (1906) *J. exp. Med.* **8**, 713.
Kemp, W. N. (1933) *Brit. J. Anæsth.* **10**, 158.
Lake, N. C. (1927) *Brit. med. J.* **2**, 1180.
Nyström, G. (1930) *Ann. Surg.* **92**, 498.

PELLAGRA

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In the past it has been customary to divide pellagra into two sections, endemic and sporadic, and to include among the sporadic cases those associated with organic disease of the gastro-intestinal tract—secondary pellagra—and those associated with alcoholism—alcoholic pellagra. I have previously pointed out in a series of articles (Stannus 1936, 1937) that the disease was one and the same, whatever the ætiological relationship might be. I also suggested that a study of exceptional cases—so-called secondary and alcoholic pellagra—might throw light upon the causation of the disease.

The association with alcohol has long been known, but it is only in more recent years that attention has been directed to the condition, chiefly in the United States, where many cases of alcoholic pellagra have come under observation. The history in these patients commonly reveals the daily consumption of enormous quantities of spirit over a period of weeks to the practical exclusion of food. American writers considered that the onset of pellagra was determined by the lack of pellagra-preventing factor (P.P. vitamin) in the diet. It was further shown that the pellagrous symptoms could be cured by treatment even though the patients were maintained on the same regime of alcohol (Spies and De Wolf 1933). With this explanation I have never felt satisfied, if only because simple starvation over similar periods is not followed by pellagra. The true explanation, I think, will become evident later in this article.

The older theories of the causation of pellagra have been dealt with elsewhere (Stannus 1936, 1937). More recent theories have been concerned with specific dietetic deficiencies and the results obtained by treatment with liver extract, yeast, and other substances, with which are associated the names of Boggs and Padget (1932), Ramsdell and Magness (1933), and Spies (1933 a, b, 1935). Subsequently I showed (Stannus 1936, 1937) that there was considerable evidence in support of a hypothesis which predicated the synthesis of a pellagra-preventing factor in the stomach analogous to Castle's factor in pernicious anæmia. This theory appeared to receive some confirmation from the observations of others, and in 1937 Petri and his coworkers successfully treated cases of secondary pellagra with human gastric juice and with Ventriculin-hydrochloric acid. Bandier (1939), using the ventriculin preparation, has confirmed these findings in endemic pellagrins in Rumania.

NICOTINIC ACID

The next step was the introduction of nicotinic acid and its amide by Smith et al. (1937) into pellagra therapy, after Elvehjem et al. (1937) had shown its value in the cure of canine blacktongue. During 1937–38 extended observations on the use of nicotinic acid defined more clearly its scope and limitations. It was hailed by many as *the* P.P. vitamin, and some authors appeared to suggest that the problem was solved. Others were more cautious, and it soon became evident that other factors were involved (Spies et al. 1938). Spies found that some of his patients treated with nicotinic acid relapsed while under treatment but again improved with the exhibition of riboflavin. This suggested to Spies "that nicotinic acid is probably not used as such by the body, but more likely is used as a component of some enzyme system and that riboflavin is also concerned" (Vilter et al. 1939a).

Since nicotinic acid is a component of the coenzymes I and II (codehydrogenases), without which many known dehydrogenases are inactive, Vilter et al. (1939a) made estimations of the blood content of codehydrogenase in pellagrins by the method of Lwoff and Lwoff (1937) who had identified "growth factor V" for *Hæmophilus para-influenzæ* with coenzyme I. They showed that in pellagra the coenzyme (codehydrogenase) content was low and could be "significantly raised by the administration of nicotinic acid." Later these observers (Vilter et al. 1939b), investigating leukæmia, in which codehydrogenase may be only 1 per cent. of normal, found that the administration of both nicotinic acid and synthetic riboflavin, though it did not raise the codehydrogenase values, yet if supplemented by the administration of 100 gr. of "strain G" yeast daily by mouth, raised them rapidly, but it was difficult to maintain the rise for long. There is good reason therefore for believing that in pellagra there is a faulty production of coenzyme (codehydrogenase). There is also some evidence that other factors may be involved. It is here proposed to collect together facts, brought to light by recent biochemical research, which appear to bear on the problem.

COENZYME-OXIDASE SYSTEM

Among the many classes of enzymes found in the body and elsewhere is the group which catalyses the oxidation of certain metabolites by activating the hydrogen of the substrate. They are known as the dehydrogenases and are inactive except in the presence of a second agent, known as the coenzyme or codehydrogenase. Whereas the specificity of each dehydrogenase for its respective substrate is notable, the same coenzyme may be common to several dehydrogenase systems. The two coenzymes which are of immediate interest, in that they both contain nicotinic acid amide, are called coenzymes I and II. They are composed of adenine (a purine allied to guanine, xanthine, and uric acid) and nicotinamide, each united to a molecule of pentose, esterified by phosphoric acid to form a nucleotide. Coenzyme I is a diphosphopyridine and coenzyme II a triphosphopyridine nucleotide. The exact formulæ have not yet been defined with certainty. These two coenzymes are widely distributed in animal tissues and in yeast; they function in the dehydrogenase systems for lactic, citric, and hexosephosphoric acids, glucose, and alcohol. When reduced they cannot react with oxygen, with an oxygen "carrier," such as cytochrome, or with an hydrogen acceptor, such as methylene blue, except in the presence of another enzyme, which has been called the "coenzyme factor" (Dewan and Green 1938) or "diaphorase" (Euler and Hellstrom 1938a and b, Lockhart 1939) and is a flavo-protein in which the protein is united to a prosthetic group consisting of flavin adenine dinucleotide. The prosthetic group therefore resembles coenzyme I, an alloxazine group replacing the nicotinamide.

adenine—d ribose—phosphoric acid
|
nicotinamide—d ribose—phosphoric acid

Coenzyme factor, like coenzyme, is found in all animal tissues and in yeast. It must be considered as the normal physiological agent for the oxidation of coenzymes I and II (Straub 1939, Corran, Green, and Straub 1939). In catalysing this oxidation of coenzyme, coenzyme factor (diaphorase) is itself reduced, to be oxidised in turn by cytochrome. Cytochrome also is widely distributed in mammalian tissues and in yeast; it acts as a carrier" between the two types of cell respiratory enzymes—the dehydrogenases and the oxidases—and, together with coenzyme factor and cytochrome oxidase, has been considered to form a coenzyme-oxidase system. Cytochrome consists of a mixture of hæmochromogen-like substances a′, b′, and c′, iron porphyrin compounds derived from hæmatin: free hæmatin ⟶ hæmochromogens ⟶ cytochromes (Keilin 1930); but it is doubtful whether c′ plays a part in these reactions. Cytochrome, when reduced by coenzyme factor, is reoxidised by cytochrome oxidase (an enzyme originally called indophenol oxidase) by means of molecular oxygen. Cytochrome oxidase may be identical with a hæmochromogen now called cytochrome a'_3, which is cyanide-sensitive, whereas the original cytochrome a′ is not (Keilin and Hartree 1938). This series of catalyses may be represented as in the accompanying table.

CATALYSES OF COENZYME-OXIDASE SYSTEM

1	2	3	4	5	6
Dehydrogenase	Coenzyme	Coenzyme factor	Cytochrome	Cytochrome oxidase	Oxygen
Activates hydrogen in specific substrate	Reduced	Reoxidises coenzyme and becomes reduced	Catalyses oxidation of coenzyme factor and becomes reduced	Oxidises reduced cytochrome by molecular oxygen	
Hydrogen ⟶					⟵ Oxygen
	Phosphopyridine nucleotide	Riboflavin nucleotide	Hæmochromogen-like derivatives of hæmatin	Cytochrome a′3	

Up to date there is evidence that in pellagra there is a disturbance of the second link in this chain. With the knowledge recently accrued concerning the constitution of coenzyme-factor, the third link, the part possibly played by riboflavin becomes apparent. Further, the therapeutic value of liver extract and yeast is explained. Theoretically, an attack on any link in the chain should, or might be expected to, initiate the train of processes leading to pellagra.

ALCOHOLIC PELLAGRA

The dehydrogenase of animal tissues (liver) which oxidises alcohol requires coenzyme I and all the other links of the chain (Lutwak-Mann 1938). The part

played by alcohol in the causation of alcoholic pellagra, it is here suggested, is as follows. If the body is flooded with alcohol when, as the result of diminished food intake, the content of these substances is lowered, the alcohol with its dehydrogenase becomes an overwhelming competitor for coenzyme, coenzyme-factor, and the other substances which form links of the chain. The whole, or the greater part, of the coenzyme (containing nicotinic acid) is diverted from normal metabolic processes towards dealing with the alcohol; this causes gross interference with the other dehydrogenase systems of the body. Whether there is at the same time interference with the normal degradation of the alcohol, ⟶ aldehyde ⟶ acetic acid, is unknown; but there is no evidence at present that alcohol or any of its derivatives are specific ætiological factors in pellagra.

OTHER POSSIBLE ÆTIOLOGICAL FACTORS

Sugar.—The glucose dehydrogenase also requires similar links of the chain, and it is not without interest to recall the fact, which I pointed out some years ago, that the consumption of large amounts of sugar appeared to play some part in the causation of pellagra.

Work.—With a reduced capacity for oxidation-reduction processes engendered by interference with the chain, the maximal rate of work will be reduced, as pointed out by Kohn (1938). Put another way, the increased amount of physical work associated with the advent of Spring or with incarceration in a jail may be the breaking-point which precipitates an attack of pellagra, coincidences which are well recognised.

Infections play a similar part, and the association of pellagra with ankylostomiasis and with chronic amœbiasis is well known. On the other hand, we can see the reason why hospitalisation is often accompanied by improvement without any change in diet.

Snake venom.—Corkill (1934) refers to snake-bite as a factor in precipitating pellagra among millet-eating Sudanese. Chain (1939) has shown that coenzyme I is inactivated by a nucleotidase in the venom of the black tiger snake.

Cyanogenetic substances.—Many native dietaries include items, such as cassava and unripened grain, which contain hydrocyanic acid. Clark (1937) believed that such cyanogenetic substances had an inhibitory action on cellular respiration and were factors in the causation of pellagroid conditions. It was a little difficult to follow his line of argument; but biochemical researches carried out later make it seem possible that his observations were correct. In the catalytic chain given above the link cytochrome oxidase is cyanide-sensitive. This would then constitute an attack on a link hitherto considered free of blame.

ANGULAR STOMATITIS AND RELATED SYMPTOMS

Some twenty-seven years ago I described a series of symptoms observed in African native pellagrins, inmates of the central prison, Nyasaland (Stannus 1912, 1913). They consisted of superficial erosions with fissuring and a white sodden appearance at the angles of the mouth, at the palpebral angles, the anterior nares, the free margin of the prepuce, and about the anus and vagina, associated with a thickened, sometimes glazed, or sometimes rather sodden condition of the skin of the scrotum. These signs were in some cases associated with other symptoms of pellagra; in others they preceded the onset of frank pellagra by many months or years. Some cases persisted with merely the affection of the corners of the mouth (angular stomatitis) and did not develop other signs during the period of observation. Since then several conditions closely resembling this have been described from various parts of the tropics under a variety of names with a diversity of opinions concerning ætiology. These were collected together and compared (Stannus 1936, 1937) and it was shown that together they formed a series of stages of incompletely developed pellagra. Examples include the condition which Aykroyd and Krishnan (1936, 1937, 1938) described originally as due to a deficiency of vitamin A and Aykroyd, Krishnan, and Passmore (1939) later reported to respond to treatment with nicotinic acid; that originally published by Landor and Pallister (1935) and subsequently by Landor (1939); and the endemic glossitis originally described by Katzenellenbogen (1928) in Palestine as an infective condition but now recognised as a deficiency disease (Katzenellenbogen 1939). Pellagrologists in the United States have recognised these conditions in pellagra, but recently have suggested that they form a complex due to a riboflavin deficiency, which Sebrell and Butler (1938), on not very convincing evidence have named "ariboflavinosis."

The therapeutic results obtained with nicotinic acid and riboflavin are conflicting. Spies et al. (1939) have reported the cure of the stomatitis, glossitis, urethritis, vaginitis, and the affection of the perineal region with nicotinic acid, and the lesions at the angles of the mouth, eyes, and nares with riboflavin. In some of these patients there was some visual disturbance which responded also to riboflavin. In other cases apparently all the symptoms have cleared up on the administration of nicotinic acid. Sebrell and Butler (1938) have induced the cheilosis experimentally in 10 of 18 (presumably healthy) women placed on a special diet. In all these cases there was no response to nicotinic acid but rapid improvement with riboflavin. One of the women showed signs of pellagra. Similar cases have been discovered in a rural population by Oden et al. (1939) which responded to riboflavin. In one of them pellagrous skin lesions were also present, but these did not respond. Landor's (1939) cases did not respond to nicotinic acid, whereas two-thirds of those so treated by Aykroyd (1939) did respond, both the angular stomatitis and the glossitis improving, though not always simultaneously. In Katzenellenbogen's (1939) cases striking results were obtained with nicotinic acid, the glossitis and angular stomatitis rapidly healing in 21 out of 24 cases.

Aykroyd (1939) and Landor (1939) have pointed out that frank pellagra never developed in their cases, but it must not be forgotten that there are many other conditions, due to the pellagrous state, which may exist for many years without the development of those symptoms which are commonly called pathognomonic. Attention was drawn to this fact in the articles already referred to (Stannus 1936, 1937), and Spies et al. (1939) have shown that good results may be obtained with nicotinic acid in these cases of subclinical pellagra. That the incidence of any particular group of symptoms in many diseases varies in different cases is a commonplace and appears to be true of pellagra. The determination of any particular symptom may depend on extrinsic factors. The part played by trauma, in the wide sense of the word, has been demonstrated in pellagra (Stannus 1936, 1937).

I have always found it difficult to believe that nature has provided a special vitamin to ensure the welfare of a few square centimetres of skin. What has been obvious to me is that the particular areas of skin involved (I associate the condition at the angles of the mouth, palpebral fissures, and lips with that of the

anterior nares, prepuce, anus, vulva, and scrotum) are anatomically differentiated from the rest of the integument. The skin in these areas (it is skin in each case and not mucous membrane, as some authors wrongly seem to believe) is of very fine texture and presents histological differences which cannot be overlooked. The sites are subject to repeated trauma and are often warm and moist. These I believe to be the factors which determine their liability to be affected.

Aykroyd et al. (1939) have cited me as maintaining that angular stomatitis is an early sign of pellagra. When I expressed that opinion I did so on epidemiological grounds. I still believe that the above-mentioned signs are signs of the pellagrous state, the state supervening on a fault in one or more links in the catalytic chain. A riboflavin deficiency would cause a break in the third link, coenzyme factor. It is possible that a fault in one link may cause a clinical picture rather different from that associated with a fault in another. The rate of failure at any one link or the relative rates of failure in two or more links might also have an effect in determining the symptoms—sex and age almost certainly do so.

The evidence that some factor in the causation of pellagra is synthesised in the stomach has been given elsewhere (Stannus 1937). The demonstration that gastric juice and ventriculin are curative has been already mentioned. The identity of that factor is not yet known, but it is possibly concerned with the coenzyme-factor link.

Many other sides of the problem might be discussed, but they are better left until further knowledge has accumulated.

REFERENCES

Aykroyd, W. R., and Krishnan, B. G. (1936) *Indian J. med. Res.* **24**, 41.
— — (1937) *Ibid*, p. 707.
— — (1938) *Ibid*, **25**, 643.
— — and Passmore, R. (1939) *Lancet*, **2**, 825.
Bandier, E. (1939) *Acta med. scand.* **101**, 496.
Boggs, T. R. and Padget, P. (1932) *Bull. Johns Hopk. Hosp.* **50**, 21.
Chain, E. (1939) *Biochem. J.* **33**, 407.
Clark, A. (1937) *J. trop. Med. (Hyg.)* pp. 269, 285.
Corkill, N. L., (1934) *Lancet*, **1**, 1387.
Corran, H. S., Green, D. E., and Straub, F. B. (1939) *Biochem. J.* **33**, 793.
Dewan, J. G. (1937) *Nature*, **140**, 1097.
— and Green, D. E. (1938) *Biochem. J.* **32**, 626, 855, 1200.
Elvehjem, C. A., Madden, R. J., Strong, F. M., and Wooley, D. W. (1937) *J. Amer. chem. Soc.* **59**, 1767.
Euler, H. V. and Hellstrom, H. (1938a) *Nature*, **141**, 870.
— — (1938b) *Hoppe-Seyl. Z.* **252**, 31.
Katzenellenbogen, I. (1928) *Arch. Derm. Syph., Wien*, **154**, 269.
— (1939) *Lancet*, **1**, 1260.
Keilin, D. (1929) *Proc. roy. Soc.* B, **104**, 206.
— (1930) *Ibid*, **106**, 418.
— Hartree, E. F. (1938) *Nature*, **141**, 870.
Kohn, H. I., (1938) *Biochem. J.* **32**, 2075.
Landor, J. V. (1939) *Lancet*, **1**, 1368.
— and Pallister, R. A. (1935) *Trans. R. Soc. trop. Med. Hyg.* **29**, 121.
Lockhart, E. E. (1939) *Biochem. J.* **33**, 613.
Lutwak-Mann, C. (1938) *Ibid*, **32**, 1365.
Lwoff, A., and Lwoff, M. (1937) *Proc. roy. Soc.* B, **122**, 352, 360.
Oden, J. W., Oden, L. H., and Sebrell, W. H. (1939) *Publ. Hlth Rep., Wash.* **54**, 790.
Petri, S., and Wanscher, O. (1937) *Acta. med. scand*, **91**, 370.
— — Stubbe Teglbjaerg, E. and Stubbe Teglbjaerg, H. P. (1937) *Ibid*, **93**, 450.
Ramsdell, R. L., and Magness, W. H. (1933) *Amer. J. med. Sci.* **185**, 568.
Sebrell, W. H., and Butler, R. E. (1938) *Publ. Hlth Rep. Wash.* **53**, 2282.
Smith, D. J., Ruffin, J. M., and Smith, S. G. (1937) *J. Amer. med. Ass.* **109**, 2054.
Spies, T. D. (1933a) *Proc. Soc. exp. Biol., N.Y.* **30**, 850.
— (1933b) *Ibid*, **31**, 363.
— (1935) *J. Amer. med. Ass.* **104**, 1377.
— Bean, W. B., and Ashe, F. (1939) *Ann. Intern. med.* **12**, 1830.
— Cooper, C., and Blankenhorn, M. A. (1938) *J. Amer. med. Ass.* **110**, 622.
— Wolf, H. F. de (1933) *Amer. J. med. Sci.* **186**, 521.
Stannus, H. S. (1912) *Trans. Soc. trop. Med. Hyg.* **5**, 112.
— (1913) *Ibid*, **7**, 32.
— (1936) *Trop. Dis. Bull.* **33**, 729, 815, 885.
— (1937) *Ibid*, **34**, 183.
Straub, F. B. (1939) *Biochem. J.* **33**, 787.
Vilter, R. W., Vilter, S. P., and Spies, T. D. (1939a) *Sth. med. J.* **32**, 619.
— — — (1939b) *J. Amer. med. Ass.* **112**, 420.

PREVENTION OF URINARY SUPPRESSION AFTER INTRAVASCULAR HÆMOLYSIS

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DEATH is a common termination of those conditions which cause intravascular hæmolysis, as in mismatched blood-transfusion, blackwater fever, and paroxysmal hæmoglobinuria. The enrolment, for war emergencies, of vast numbers of group-O donors, who will be used in circumstances precluding facilities for direct matching, has increased the possibility of mismatched transfusion. Death from incompatible transfusion is usually due to renal obstruction with its attendant "uræmia," because blood pigment is deposited in the tubules. Hesse and Filatov (1933), however, have advanced the view that acute capillary constriction plays a part in some cases. Baker and Dodds (1925) describe sudden death in rabbits after the injection of hæmoglobin solutions which contain cell shadows. It is generally conceded that renal obstruction is more important than other theoretical considerations. No close relation has been established between the quantity of blood hæmolysed and the development of renal obstruction. Some patients with massive intravascular hæmolysis have survived, hæmoglobin having been successfully eliminated by the kidneys, whereas others, with less severe hæmolysis, have died. Death in many cases is undoubtedly avoidable under certain conditions.

CONDITIONS NECESSARY FOR ELIMINATION OF HÆMOGLOBIN IN URINE

The essential requirement for the elimination of hæmoglobin in the urine is to maintain the hæmoglobin in a soluble form to ensure excretion. Baker and Dodds (1925) described the post-mortem findings in two cases of incompatible blood-transfusion and experimental work which clearly explains the mechanism whereby blood pigment is deposited in and obstructs the renal tubules. Hæmoglobin liberated in the blood is in solution in the plasma at pH 7·3–7·5. It passes through the glomeruli and remains unchanged until it reaches the tubules. In man the reaction of the urine here changes to pH 4·6–5·4. Under these conditions the hæmoglobin is converted to methæmoglobin, which later crystallises out as acid hæmatin. This substance causes the obstruction, which on histological section appears as tubular casts. Baker and Dodds demonstrated an additional factor in the concentration of the urinary mineral constituents. This factor operated when the urine was acid. They concluded that if the urinary reaction was maintained on the alkaline side of pH 6·4, no change took place in the hæmoglobin, and it remained in solution.

During the excretion of hæmoglobin by the kidney the quantity of urine passed is important. A small urinary output means slower elimination and a more concentrated solution of hæmoglobin and its products in the kidney. Both of these factors are unfavourable for maintaining the hæmoglobin in soluble form. Alkalinisation of the urine must therefore go hand in hand with the maintenance of a high urinary output.

The justification for the work quoted below lies in a statement by Baker (1937): "Since our paper was published in 1925 many cases of post-transfusion suppression have been reported, but in only very few of these can I find that alkalinisation has been attempted and even in these it has obviously been tried much too late."

TABLE I—AVERAGE URINARY pH OF TWO SETS OF PATIENTS, BOTH HAVING 8 G. OF POTASSIUM CITRATE

—	Before	After (hours)								
		½	1	1½	2	2½	3	3½	4	4½
High urinary output	6·2	7·2	7·5	7·7	7·2	7·0	7·0	6·8	6·1	6·0
Low urinary output	5·4	6·8	7·8	7·9	7·7	7·7	7·8	7·5	7·4	7·0

PRACTICAL METHODS OF ENSURING ELIMINATION OF HÆMOGLOBIN IN URINE

In view of the foregoing facts, we have assumed that the optimal conditions for harmless elimination of hæmoglobin are a urinary output of at least 1500 c.cm. in twenty-four hours and a reaction not lower than pH 7·0. This last figure has been arbitrarily chosen to give a margin of safety. The maintenance of this urinary output can be accomplished by the daily administration of at least 3000 c.cm. of fluid (Coller and Maddock 1933). This amount is necessary because 1000 c.cm. is constantly eliminated by the skin and 500 c.cm. by the lungs and fæces. The intake has to be increased when there is any extra loss

TABLE II—URINARY pH IN SUBJECTS ON HIGH FLUID INTAKE AFTER SINGLE DOSES OF 8 G. OF POTASSIUM CITRATE

Before	After (minutes)					
	15	30	45	60	75	90
5·4	5·3	7·2	7·4	7·4	7·3	7·4
5·2	5·2	6·6	7·3	7·3	7·3	7·2
6·6	6·6	7·4	7·6	7·5	7·3	7·2
6·8	6·8	7·4	7·8	7·5	7·3	7·2

of fluid from normal or abnormal channels. As to the type of alkali and the dose most suitable, the only literature, based on experimental work, which we have had opportunity to consult has been the papers of Davis et al. (1920) and Haldane (1924). These have formed the basis for our preliminary work.

Table I shows the average effect of a single dose of alkali (8 g. of potassium citrate) on two sets of patients, one with a high urinary output and one with a low output. The lower output of urine prolongs the effect of the alkali. The administration of sufficient alkali to maintain 1500 c.cm. of urine at pH 7·0 is larger, therefore, than the amount required to alkalinise a smaller volume of urine. The experimental data which follow are only from those cases where the urinary output has been above 1500 c.cm. in twenty-four hours. In practice it is desirable to combine the administration of fluid and alkali into one therapeutic measure. This can be undertaken by one of three routes: oral, rectal, or intravenous.

Oral administration.—Davis et al. (1920) and Haldane (1924) recommend the use of sodium acetate and sodium citrate for oral administration. They state that sodium bicarbonate, though a smaller dose is required to obtain the same effect, is irritating to the gastro-intestinal tract. This statement we confirmed by giving volunteers equivalent doses of different alkalis, 45 g. of sodium bicarbonate being equivalent to 70 g. of sodium citrate (Haldane 1924). Since potassium citrate appeared to be as efficient and as rapid in action on the urine as any other alkali, all further experiments were conducted with this substance. It is probable that other alkalis would be equally efficient. To establish the rapidity with which the urine could be rendered alkaline, a single dose of potassium citrate (8 g.) was given to four volunteers, who were then asked to pass urine every 15 min. Table II shows that the urine reaches a pH of 7·0 or over in about 30 min.

A determination of the optimal dose of potassium citrate necessary to guarantee the maintenance of urinary pH above 7·0 was then undertaken. Four volunteers were each given 20 g. of potassium citrate in twenty-four hours in doses divided in different ways over two periods of twenty-four hours. This amount of alkali was too low, for on seven occasions the urinary pH fell significantly below 7·0. These low pH's were irrespective of the distribution of dose of alkali employed. Four other volunteers were

TABLE III—URINARY pH BEFORE AND AFTER 20 G. OF POTASSIUM CITRATE

Before	12 hours after	Before	12 hours after
5·4	8·0	6·8	8·1
5·2	8·1	6·6	8·0

given a single dose of 20 g. of potassium citrate and the urinary pH recorded before the alkali was given and twelve hours later. Table III shows that, at the end of twelve hours, the effect of the alkali on the urine was well maintained. During this period the subjects were at complete rest.

The next experiment was undertaken with four volunteers who were given higher doses of potassium citrate. Two were given 46 g. of potassium citrate, and two 72 g. over a period of twenty-four hours. Table IV records the urinary pH of these subjects on all specimens. Towards the end of this time three out of the four subjects had developed symptoms of alkalosis. In one case these symptoms were fairly severe. It will be noted also that the pH readings

TABLE IV—URINARY pH IN SUBJECTS ON LARGE FLUID INTAKE AND ON MASSIVE DOSES OF POTASSIUM CITRATE

Dose of potassium citrate	Urinary pH during 24 hours					
46 g.	7·8	8·1	8·4	8·0	8·0	..
72 g.	8·0	8·0	8·2	8·3	8·0	8·4
46 g.	7·5	8·1	7·9	8·1	..	..
72 g.	8·2	8·0	8·5	8·4	8·2	..

were higher than those required. Three conclusions were made from these experiments:—

(1) Change of urinary reaction to at least pH 7·0 can be accomplished in about half an hour, when alkalis are administered by mouth.

(2) The optimal dose of potassium citrate is below 46 g. in twenty-four hours.

(3) The doses of potassium citrate need not be regularly spaced throughout the twenty-four hours.

Before these conclusions were confirmed, various substances were tried to take away the taste of the potassium citrate. It was found that ordinary lemon squash was the most efficient, and this was used in the final experiment. It was also decided that the optimal safe dose of potassium citrate would be about

TABLE V—AMBULANT SUBJECTS TAKING 35 G. OF POTASSIUM CITRATE PER 24 HOURS FOR 2 DAYS

Subject	Urinary pH before administration	pH of all specimens of urine passed												Alkali reserve at end of 24 hours
1	6·4	7·9	7·9	7·6	7·4	7·2	8·0	8·2	8·2	..	..	..	..	72
		7·4	7·9	7·8	8·0	8·0	8·0	7·5	8·3	8·0	..	..	..	
2	5·7	7·1	7·3	7·2	7·8	7·9	7·0	..	..	..	..	..	..	75
		7·9	7·9	8·0	8·0	8·0	8·0	..	..	..	..	..	..	
3	5·2	7·6	7·9	8·0	8·0	7·4	8·2	8·2	..	..	..	..	..	71
		8·0	8·0	8·2	8·1	8·0	..	..	..	..	..	..	..	
4	5·8	7·3	7·6	8·2	8·0	7·8	7·9	..	..	..	..	..	..	77
		7·7	7·8	7·9	8·0	8·2	8·4	7·9	8·7	8·1	8·2	..	..	
6	5·4	7·1	7·9	8·0	8·0	8·1	..	..	..	..	..	..	..	84
		7·9	8·3	8·2	Alkalosis—experiment ceased									
7	5·4	7·9	7·2	7·4	7·9	8·0	7·4	7·8	7·9	8·2	7·3	7·6	8·0	77
		7·6	7·4	7·8	8·0	7·9	7·2	7·4	7·2	8·1	8·2	8·0	..	
8	6·2	7·2	7·2	7·5	7·7	7·8	7·3	7·3	7·6	7·6	7·6	..	..	Not performed
		7·9	7·5	7·5	7·9	7·3	7·3	7·4	8·2	7·3	..	..	..	
9	6·2	7·6	7·4	7·7	7·9	8·0	7·7	7·8	7·6	7·9	8·1	7·9	..	77
		7·9	7·9	7·4	7·8	7·9	8·0	8·0	8·0	8·0	7·6	8·0	8·0	
10	6·4	7·6	7·4	7·4	7·9	7·2	7·4	8·0	7·6	7·6	8·2	8·3	8·2	72
		8·0	7·3	7·7	7·7	7·8	7·7	8·2	..	..	..	..	..	
11	6·4	7·6	7·7	7·8	7·2	7·8	6·8	6·9	8·0	8·1	8·0	..	..	78
		8·1	7·3	7·9	6·8	8·0	7·4	7·9	8·0	7·9	..	..	..	
12	6·6	7·2	7·5	7·6	6·9	7·6	7·5	7·5	7·8	..	..	..	..	76
		7·6	7·6	7·9	7·6	7·7	8·0	7·9	7·4	7·9	7·9	7·9	..	

35 g. A therapeutic procedure, combining the above points, was tried on twelve volunteers. They were given 35 g. of potassium citrate in 2000 c.cm. of water flavoured with lemon squash. They were instructed to drink all the fluid within twenty-four hours when and how they pleased and to continue their normal liberal diet. This was repeated for a further twenty-four hours. At the end of the forty-eight hours the alkali reserves of all volunteers were measured. Table V shows the urinary pH of every specimen of urine passed and the alkali reserves of each subject. One test had to be discarded. One volunteer (subject 6) developed mild symptoms of alkalosis after thirty-six hours. Her alkali reserve was 84. She was a slender girl weighing 114 lb. The results confirm that 35 g. of potassium citrate will maintain the alkalinisation of the urine. Since these patients were ambulant, it was thought that patients at rest in bed might not be able to tolerate the full dosage of 35 g. A final experiment was then undertaken: four volunteers from the convalescent ward of a hospital were given 35 g. of potassium citrate in 2000 c.cm. of lemon squash every twenty-four hours for three days. The urinary pH results are shown in table VI. Some of the patients taking the lemon-flavoured mixture complained that it progressively became more monotonous. By the end of the third day several complained that it called for an effort to finish the two litres. Various other flavourings have been tried. Beef-tea, coffee, or milk completely disguises the flavour of the drug.

Recommendations.—As soon as intravascular hæmolysis is suspected, a single dose of 8 g. (gr. 120) of potassium citrate should be given. This will render the urine alkaline within half an hour. During the next twenty-four hours the remainder of the 35 g. of potassium citrate (27 g. = gr. 415) should be given dissolved in 2000 c.cm. of lemon squash. Instructions must be given that the mixture must all be taken. Besides this the patient should take at least 1000 c.cm. of other fluid. After this time alternative flavourings may be used in the 2000 c.cm. of potassium-citrate mixture. A solid diet contains 1000 c.cm. of fluid (Coller and Maddock, 1933). This will make the total fluid intake per day 3000 c.cm. Potassium citrate 35 g. (gr. 525) given in the same way should be taken every twenty-four hours until hæmoglobinuria has ceased. In unconscious patients 35 g. of potassium citrate in 3 litres of water can be given by drip feed through a stomach-tube. Should the symptoms of alkalosis appear, the administration of potassium citrate should be stopped for six hours or until the symptoms have disappeared, and then restarted. These symptoms in the early stages are lassitude, giddiness, and headache; later, vomiting and muscular cramps. Since urinary methæmoglobin has a brownish tinge and unchanged hæmoglobin is bright red, the change of colour will afford a valuable clinical index of urinary pH. The appearance of a brownish tinge in the urine should be a sign to restart treatment.

TABLE VI—SUBJECTS AT REST IN BED TAKING 35 G. OF POTASSIUM CITRATE PER 24 HOURS FOR 3 DAYS

Subject	Urinary pH before administration	pH of all specimens of urine passed									Alkali reserve at end of 24 hours (c.cm. per cent.)
1	5·9	7·6	7·4	7·2	7·4	8·4	7·1	7·4	..	..	71
		7·8	7·6	7·8	7·8	6·9	8·7	..	..	..	
		8·0	7·9	8·1	8·9	7·3	8·2	..	..	..	
2	6·2	7·6	7·9	8·0	7·6	7·4	7·4	8·0	..	..	62
		7·8	8·0	8·0	8·2	7·9	7·8	8·2	8·2	7·6	
		8·3	7·7	8·0	8·2	8·2	7·5	7·4	..	..	
3	8·0	7·4	8·0	7·4	7·9	8·0	..	..	..	..	70
		8·0	8·2	8·0	8·0	8·0	8·2	7·3	..	..	
		7·3	8·0	8·1	8·3	8·2	8·2	7·6	..	..	
4	6·6	7·8	7·2	7·7	7·8	7·5	8·2	7·3	7·9	..	72
		7·6	7·8	8·2	7·8	7·3	7·3	8·0	7·3	8·1	
		8·1	8·0	8·2	8·3	8·4	8·0	8·0	8·0	8·0	

Rectal administration.—The large fluid intake which is required (3 litres a day) cannot be given rectally by the commonly employed methods of administration. Marriott and Kekwick (1937) have shown that this is possible by employing Murphy's

principles. This requires, however, the constant attention of a trained nursing staff. Even then it is not possible for all patients and uncertain for others. The importance of ensuring the absorption of both fluid and alkali is so great that it negatives the employment of this technique.

Intravenous administration.—In those cases where oral administration is impracticable the fluid and alkali may be given intravenously. The choice of alkali for these experiments has been sodium citrate, for it was already known from experience with massive blood-transfusion that a considerable amount of sodium citrate was well tolerated intravenously. A preliminary experiment was undertaken to determine the effect of a large single dose of sodium citrate on the urinary pH. A subject on a high fluid intake was given 6 g. of sodium citrate intravenously. Table VII shows the urinary pH every 15 min. for 1½

TABLE VII—URINARY pH AFTER A SINGLE INTRAVENOUS DOSE OF 6 G. OF SODIUM CITRATE

Before	After (minutes)					
	15	30	45	60	75	90
5·2	6·8	8·3	7·9	6·7	6·0	6·3

hours. It was concluded that alkalinisation of the urine was at least as rapid as with approximately the same dose of alkali as was given by mouth (see table II). Further, the effect of 6 g. of sodium citrate given intravenously, compared with that of 8 g. of potassium citrate given by mouth, was that the urinary pH rose higher and returned to normal more quickly. The former is probably due to the increased certainty of the total dose of alkali reaching the blood-stream.

A 3 per cent. solution of sodium citrate has been shown to be isotonic with blood (Norgaard and Gram 1921; Hirschlaff 1936). This solution was prepared and autoclaved. A 5 per cent. solution of glucose was prepared separately and sterilised. These solutions cannot be sterilised together, owing to the changes produced in the glucose. Sodium citrate 35 g. in glucose was given to one patient over a period of twenty-four hours by the drip method. The administration was continued for thirty hours. A total of 3000 c.cm. of fluid was given for the first twenty-four hours. As was expected, this patient complained of definite symptoms of alkalosis. Three other patients were then given half this amount of sodium citrate (18 g.) for two periods of twenty-four hours. The urinary pH's and alkali reserves are recorded in table VIII.

TABLE VIII—URINARY pH AFTER 18 G. OF POTASSIUM CITRATE INTRAVENOUSLY EACH 24 HOURS FOR 2 DAYS

Subject	Urinary pH during 2 periods of 24 hours					Alkali reserve
1 ..	6·4 8·0	7·7 8·2	7·5 8·2	8·0 8·4	.. ..	74 76
2 ..	7·0 8·0	7·2 7·8	7·5 7·9	8·0 8·3	.. 8·3	61 64
3 ..	7·6 8·2	7·8 8·0	8·0 8·0	.. 8·2	.. 8·2	76 ..

Recommendations.—A 3 per cent. solution of sodium citrate and a 5 per cent. solution of glucose are prepared and sterilised separately. As soon as intravascular hæmolysis is suspected, 150 c.cm. of the 3 per cent. solution of sodium citrate (4·5 g. = gr. 69) should be administered immediately with a syringe. This will render the urine alkaline. Next, 450 c.cm. of the citrate solution should be added to 2400 c.cm. of the glucose and a continuous drip should be established, the total volume of fluid, 2850 c.cm., being given during the first twenty-four hours. Sodium citrate solution 600 c.cm. (18 g. = gr. 270) and 2400 c.cm. of glucose are mixed and administered by intravenous drip every twenty-four hours until the disappearance of the hæmoglobinuria. The same precautions should be taken if the symptoms of alkalosis appear as were recommended above under oral administration.

COMMENT

In this paper we have made recommendations for the prevention of suppression of urine after intravascular hæmolysis. Final proof of the efficacy of these suggestions can only be obtained in the treatment of actual cases. These we have not had at our disposal. We submit, however, that a strong case has been made out for the trial of these procedures.

SUMMARY

(1) Suppression of urine after intravascular hæmolysis is due to obstruction of the tubules with products derived from hæmoglobin.

(2) The conditions necessary for its prevention are a high urinary output of at least 1500 c.cm. a day and a constant urinary reaction of pH 6·4 or over.

(3) These conditions can be fulfilled by the administration of fluid and alkalis orally or intravenously.

(4) Recommendations regarding the dose of alkali by both routes are made.

Our thanks are due to Dr. P. Phillips, medical superintendent of the Southmead Hospital, for placing cases at our disposal; and to numerous members of the personnel of the Army Blood Transfusion Service.

REFERENCES

Baker, S. L. (1937) *Lancet*, **1**, 1390.
— and Dodds, E. C. (1925) *J. exp. Path.* **6**, 247.
Coller, F. A., and Maddock, W. G. (1933) *Ann. Surg.* **98**, 952.
Davis, H. W., Haldane, J. B. S., Kennaway, F. L. (1920) *J. Phys.* **54**, 32.
Haldane, J. B. S. (1924) *Lancet*, **1**, 537.
Hesse, E., and Filatov, A. (1933) *Z. ges. exp. Med.* **86**, 211.
Hirschlaff, B. (1936) *Acta med. scand.* **87**, 530.
Marriott, H. L., and Kekwick, A. (1937) *Practitioner*, **139**, 250.
Norgaard, A., and Gram, H. C. (1921) *J. biol. Chem.* **49**, 263.

DRUGS USED IN SURGERY TO RAISE BLOOD-PRESSURE

WITH SPECIAL REFERENCE TO VERITOL

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DRUGS that raise the blood-pressure are of particular interest to the surgeon to counteract the serious falls that take place during major operations, especially with spinal anæsthesia, and in other conditions of shock. I have studied this subject since 1933 and tested many drugs to maintain the blood-pressure and to restore it from unduly low levels. Of these Veritol has proved to be the most satisfactory.

CORAMINE

Coramine has been given intravenously and intramuscularly in doses up to 2 c.cm. So far as can be measured with the ordinary sphygmomanometer or an oscillometer, no effect whatever is produced on the blood-pressure, nor has any other benefit been observed; consequently this preparation is not used for the purpose of raising the blood-pressure.

ADRENALINE

The effect of an injection of adrenaline, 5–15 minims of the B.P. liquor, given either intramuscularly or intravenously, is dramatic. The pressure climbs instantaneously to 200–400 mm. Hg. The fall is equally precipitate; therefore adrenaline is regarded as useless for the purpose of raising and maintaining the blood-pressure in surgery.

ICORAL

Icoral has been injected on many occasions. Flint (1935) reported favourably on its effectiveness in spinal anæsthesia. The prompt elevation of the blood-pressure is like that produced by a dose of adrenaline; the rise is excessive, and the consequent bleeding from an ordinary wound, as in a gridiron appendicectomy or a herniotomy, is heavy. It is felt that this medium is too powerful for surgical purposes, especially in elderly people. Such vigorous stimulation is unnecessary. The useful dose is 0·3–0·5 c.cm.; 1 c.cm., the amount recommended by the manufacturers, gives an excessive response. More work is necessary to define its proper place.

ESERINE

Eserine has been given intramuscularly in doses of gr. $\frac{1}{100}$ on a few occasions. During an operation for renal denervation it was noticed that, when eserine was injected, the blood-pressure was raised; consequently it was used in a few operations to define its effect. This was found to vary, and the inquiry was not pursued further.

EPHEDRINE

Until January, 1937, ephedrine was regarded as the medium par excellence for the control of the blood-pressure. Ephedrine gr. 1, given before a spinal anæsthetic, maintains the pressure in three-quarters of the cases; of 14 patients given ephedrine gr. 1 shortly before a Percaine spinal for a major operation 11 required no further medication. Falls of blood-pressure, however, are common and severe enough to make it necessary to determine the blood-pressure at regular intervals, especially if the patients are to be safe and post-operative headaches reduced to a minimum. When a fall has taken place, ephedrine gr. ½ injected intravenously can almost always be relied on to restore the normal level within a minute (fig. 1). When the pressure has fallen unduly low, another gr. ½ is necessary. For dependable results ephedrine must always be given intravenously, because its action is uncertain when the drug is given intramuscularly or subcutaneously. The duration of the raised level is uncertain, 10–20 min. being probably the maximal period; therefore repeated injections are necessary. The sudden oscillations on the pressure chart during an operation performed under spinal anæsthesia when ephedrine is used are not pleasing to the eye. Nevertheless ephedrine remained the chief remedy until something better was found.

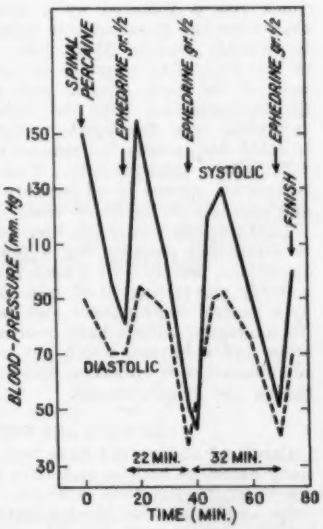

FIG. 1—Effect of intravenous injections of ephedrine on blood-pressure during radical excision of breast carcinoma in a man aged 50.

CORTIN

Cortin (extract of suprarenal cortex) 5–10 c.cm. was given intravenously in several cases in 1936 and 1937. On the whole it tended to raise the blood-pressure and sustain it, but its effect was inconsistent, and for this reason and for that of expense its use was discontinued.

VERITOL

Veritol (β-*p*-oxyphenyl isopropylmethylamine) has been studied by me since January, 1937, and was the subject of a detailed report elsewhere (Dodd and Merton 1939). Of the drugs so far tried it is the most satisfactory for raising the blood-pressure. It can be given in three ways: intravenously, intramuscularly, and mixed—i.e., intravenously and intramuscularly. The dose for intramuscular injection is 0·75–1 c.cm.; nothing less than 0·75 c.cm. is effective with a low blood-pressure. The blood-pressure begins to rise in 3–5 min. and progresses to a maximum in about 20 min. (fig. 2), usually reaching the normal systolic figure. The fall from this level mostly takes place during the succeeding 20–40 min., when, if the operation is still proceeding, a further dose of the same amount may be considered necessary. Subsequent injections continue to be effective, although in a truly shocked patient 1·5 c.cm. is usually needed. These injections have been given successfully on hundreds of observed occasions and are absolutely dependable. No harmful effect has been noticed.

Veritol administered intravenously acts immediately—i.e., within 15 sec.—and according to the dose raises blood-pressure to the normal systolic level or considerably higher. It has been found by experience that 0·25 c.cm. is the useful dose during operation. The

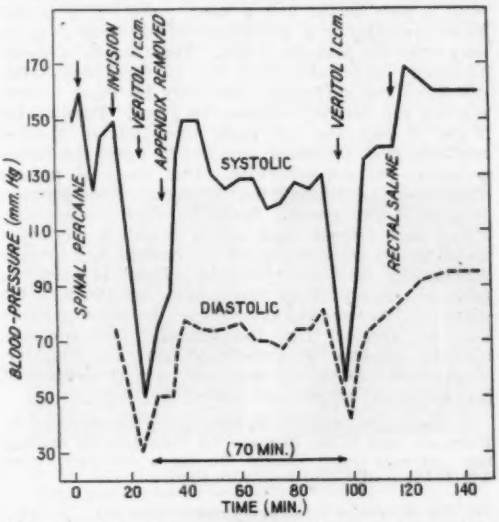

FIG. 2—Effect of intramuscular injections of veritol on blood-pressure during appendicectomy and partial gastrectomy for duodenal ulcer in a man aged 50.

quick rise is followed by a somewhat quicker fall than after the intramuscular injection, and the effect is probably over in 20–25 min. To take advantage of the immediate response to intravenous injections and of the more gradual and sustained action of the intramuscular dose the technique of combined injections was developed. Veritol 0·75 c.cm. is injected deeply into the muscles of the shoulder and 0·25 c.cm. intravenously. This combination will restore the normal blood-pressure almost immediately and maintain it for 30–45 min.

In the wards veritol has been given with advantage to debilitated patients for a few days after major operations, usually 0·75–1 c.cm. intramuscularly, when a steady rise lasting 40–60 min. follows, accompanied by a general improvement and feeling of well-being. No unpleasant effects have been noted, such as headaches and giddiness, which not unusually follow the administration of ephedrine and other agents used for raising the blood-pressure.

CARDIAZOL AND VERITOL

Cardiazol and veritol have been given together on many occasions both at and after operations (fig. 3); this is an effective twin injection. It strengthens the pulse and raises the blood-pressure. The indication for it is a patient who is cold, whose nails are dusky, whose systolic pressure has dropped to near the normal diastolic, and whose pulse is weak. No side or ill effects have been recorded from the administration of the two. It is felt that they are best given at half-hour intervals, although no real grounds for this have been observed. It is considered inadvisable to inject two stimulants simultaneously, except in collapse.

HYPERTONIC SALINES

This note would be incomplete without a reference to the work of Walker (1936) on the effectiveness of intravenous injections of 30 per cent. solutions of salines for raising the blood-pressure, especially in spinal anæsthesia. It has always been used with success, although it has not been adopted as routine, because of the effectiveness of ephedrine and veritol and because of the large quantity of saline that has to be injected, the dose being 20–40 c.cm. After

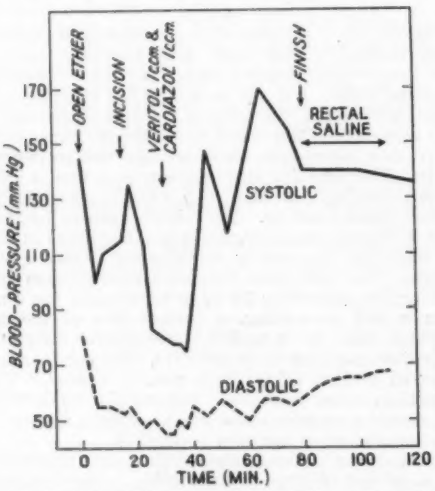

FIG. 3—Effect of intramuscular injections of cardiazol and veritol on blood-pressure during cholecystectomy in a man aged 56.

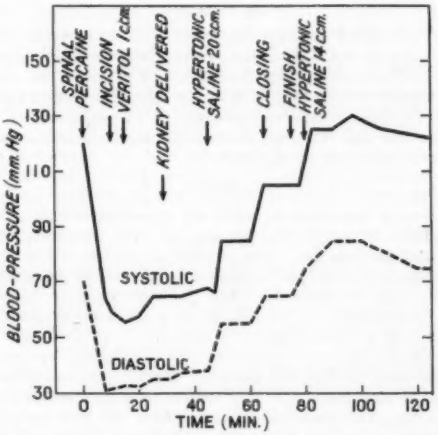

FIG. 4—Effect of injections of veritol and of hypertonic saline solution on blood-pressure during pyelotomy in a man aged 59.

serious and long procedures, such as a resection of the rectum or of the stomach, 1 c.cm. of cardiazol and 20 c.cm. of a 30 per cent. salt solution raise the blood-pressure and improve the patient's colour. Walker found that 40 c.cm. of a 30 per cent. saline was a suitable dose to raise the blood-pressure immediately after the fall which followed the administration of a spinal anæsthetic. The increase begins within 5 min. and continues for 30–40 min., while the patient improves in colour and becomes pink again (fig. 4). Another advantage of using hypertonic saline in spinal anæsthesia is the distinct reduction in the number of postoperative headaches.

BLOOD-PRESSURE CHARTS

It is advantageous and even essential to take blood-pressure readings before using a pressor drug; this will determine whether a cardiac tonic, such as Cardiazol or coramine, is necessary, as in a patient with a poor colour and a weak pulse but a normal blood-pressure, or if a pressure-raising drug is necessary when the pressure is low. The changes of blood-pressure which take place one to three days after operation are surprising, and only by exact estimamations can correct treatment be given. Possibly the finger of one who has made thousands of checked readings may reasonably accurately guess the blood-pressure, but not otherwise. This study of pressor drugs has established the value of blood-pressure readings. The systolic figure is often considerably lower than normal, and, more important, in many instances the relationship of the diastolic and systolic readings is seriously disturbed. There is often an approximation of these two figures—e.g., 90 mm. Hg diastolic, 100 mm. Hg systolic—or the pulse pressure may be greater than the diastolic pressure—e.g., diastolic pressure 60, systolic pressure 130 mm. Hg. Experience has shown that both are conditions of serious import which need immediate treatment.

I thank Drs. Gerald Merton, John Hunter, E. D. Falconer, and Keith Stevens for their help in making the pressure-pulse charts during operations from which these observations were made.

REFERENCES

Dodd, H., and Merton, G. (1939) *Brit. J. Surg.* **27**, 78.
Flint, E. R. (1935) *Brit. med. J.* **1**, 331.
Walker, J. B. (1936) *Brit. J. Surg.* **24**, 105.

HARELIP

A NEW CUPID'S-BOW OPERATION

By E. A. Hardy, M.R.C.S., L.D.S. R.C.S.

SENIOR DENTAL SURGEON TO THE WOOLWICH WAR MEMORIAL HOSPITAL; DENTAL SURGEON, PLASTIC UNIT, LONDON COUNTY COUNCIL HOSPITALS

The double harelip as seen in adolescents and adults is notably deficient in skin and mucosa and usually lies in a plane posterior to the lower lip (fig. 2). Hitherto the treatment for this has consisted of a series of operations to advance the upper lip by freeing the tissues from the premaxilla or other skeletal attachment and to increase the vermilion border. These manipulations, culminating in a cupid's-bow operation, have always tended to decrease still further the length of skin between the columella and the vermilion border and have not cured the ugly convexity. After the first of these operations and before the cupid's bow, the dental surgeon is called on to push forwards and stretch the skin of the lip and to roll and evert the vermilion border, a difficult task, especially if a pleasing effect is to be obtained when the patient smiles. His best result has always been attained by the production of an artificial open bite. The operation to be described achieves all these aims besides increasing the size of the lining, thus making easier the advancement of the lip, particularly the vermilion border and producing the concavity of the lip with its everted margin, while retaining the balance between the skin and vermilion border necessary for an attractive feature.

OPERATION

The advancement of the lip and base of the nose is made by the recognised incision along the line of reflection of the mucosa in the labial sulcus behind the columella and alæ. The tissues are thus freed from their skeletal attachment; but, before the impression of the raw area is taken, another incision is made at the junction between the skin and the vermilion border (fig. 1*a*). The mucosa is dissected from behind the whole length of the lip and lowered to the desired position. The vermilion border now consists of but two thicknesses of thin membrane, between which more substance must be incorporated. The mass of orbicularis muscle, found bunched up in the centre of the lip, is divided horizontally from behind, and the lower portion is pulled down between the two layers to form the body of the new vermilion border. The Stent mould, over which the graft is stretched, creeps into this division between the muscle-fibres and holds them in place (fig. 1*b*). Gossamer silk-worm gut sutures at the junction of the skin and mucosa complete the operation. The lowering of the lining to the lip increases the raw area above, which requires a slightly larger Thiersch graft. Again, a snick in its upper free margin to allow its easier depression may still further increase this area. This is of no consequence. The lip is held in this position until the graft is fully established and no contraction thought likely. The middle of the lip is then allowed to recede to produce the desired concavity (fig. 4). At the same time the dental surgeon can lower the incisor teeth to the new lip line, thus effecting a more pleasing appearance both in smiling (fig. 5) and in repose (fig. 4). In the case illustrated (figs. 3–6) the advancement of the lip and base of the nose caused a deformity of the bridge (fig. 3), necessitating the introduction of a bone graft (fig. 4).

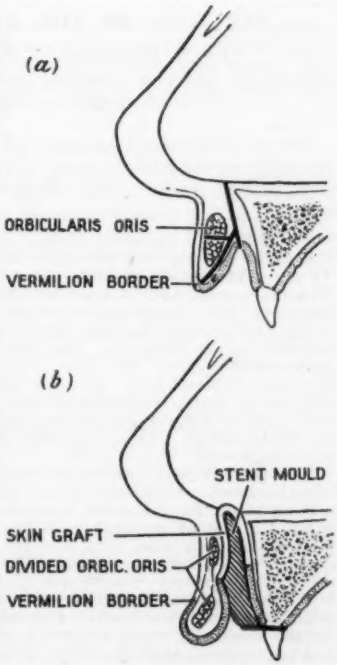

Fig. 1—Diagrams showing two stages in the new operation: (*a*) incisions made to free the vermilion border and to split the orbicularis oris muscle; (*b*) insertion of mould and skin graft, new position of vermilion border, and lower part of orbicularis oris muscle forming body of new lip.

I wish to thank Mr. A. H. McIndoe for his assistance throughout the skin-grafting operation.

2

3

Fig. 2—Position and length of upper lip with little vermilion border before the new operation.

Fig. 3—Advancement of lip, tip of nose, and alæ after skin grafting.

4

5

Fig. 4—Position of lip after centre has been allowed to recede. Depressed nasal bridge has been rectified with a bone graft from the iliac crest.

Fig. 5—Amount of vermilion border after completion of operation.

SARCOMA OF THE STOMACH

By A. Hochmann, M.D. Paris
(*From the Radium Institute and the Rothschild Hadassah Hospital, Jerusalem*)

Of the following two cases of sarcoma of the stomach one was a small-round-celled lymphosarcoma and the other a large-round-celled sarcoma.

CASE-RECORDS

Case 1.—The patient, a male aged 25, came to the clinic for the first time on July 18, 1935, with 1½ years' history of indefinite pains and loss of weight. The pains were at first mild and increased slowly in intensity, but the patient never required analgesics.

On examination he had practically no symptoms referable to the stomach. The gastric content of free hydrochloric acid was low. A blood-count was normal. Radiography of the stomach revealed thickening and irregularity of the folds of mucosa, and a slight deformation of the bulbus duodeni, but no filling defect. Either gastritis or duodenal ulcer was diagnosed.

The patient was discharged and came back four months later. Epigastric pains were stronger and accompanied by frequent vomiting. Radiography showed a dilated stomach with hypersecretion; the folds of mucosa were torn, the pylorus was funnel-shaped, and after three hours there was still some residue. A gastric tumour was therefore suspected, but this diagnosis was contradicted by the lack of delimitation between healthy and unhealthy parts and by the relatively rapid emptying of the stomach.

At operation, April 30, 1936, an inoperable tumour was found extending from pylorus to cardia. Biopsy alone was done, and the histological examination revealed a small-round-celled lymphosarcoma.

The patient was treated by X rays administered to the stomach through three fields 10 × 15 cm. at a distance of 40 cm. The total dose was 3600 r., the dose at each sitting being 150–200 r. The patient left the hospital, after an uneventful convalescence, in good health.

Radiography on July 3, 1937—more than a year later—showed that, except for thickening of the folds of mucosa, the stomach was radiologically normal. This finding was reported again on April 23, 1939. The patient is in excellent health and is working as a painter.

This case confirms the efficacy of X rays in the treatment of small-round-celled lymphosarcoma.

Case 2.—The patient, a female aged 40, had a history of several years' diarrhœa and melæna. Her fæces contained *Amœba histolytica*, and she received an appropriate treatment. The symptoms, nevertheless, continued in a severe form, and the patient was admitted to the clinic in February, 1939.

On examination she appeared anæmic; a blood-count showed 2,540,000 red cells, with hæmoglobin 47 per cent. There were no symptoms referable to the stomach, and analysis of the gastric contents showed that the amount of hydrochloric acid was normal. The only objective sign was a small tumour in the left hypochondrium. Radiography showed no obstruction and no filling defect. A tumour in relation with the descending colon was diagnosed. At laparotomy small glands were discovered on the omentum. In the stomach other tumours were palpable. The stomach was opened, and several pedunculated growths were found, infiltrating the wall of the stomach in one place. The infiltrated portion of stomach and the pedunculated tumours were resected. Histological examination showed a large-round-celled sarcoma. The patient died some days later.

DISCUSSION

Incidence.—Sarcoma of the stomach is relatively rare. It is estimated by Hesse (1912), and by Ewing (1928) to cause about 1 per cent. of all gastric tumours. According to Madding (1939), 428 cases of non-epithelial tumours of the stomach had been reported up to 1938. There is no difference in sex-incidence. The age-incidence, as compared with that of epithelioma, is displaced in the direction of the earlier decades. The incidence begins at 20–30, rises steeply, and falls rapidly in the seventh decade.

Gastric sarcomas may be divided into three groups according to their site: exogastric, endogastric (often pedunculated), and intramural. Their size is variable; they may be small or as large as a child's head. They are usually larger than epithelial malignant tumours. In case 1 the tumour invaded the whole stomach from pylorus to cardia.

Diagnosis is difficult if not impossible. Our patients were long kept under medical observation for dyspeptic disturbances, yet tumour of the stomach was not suspected. It has been already mentioned that gastric sarcoma is more frequent in young subjects. The average age given by Madding (1939) is about 46. One of our patients was a young man of 25; the second was a woman aged 40. The clinical picture is often misleading, the symptoms being variable and depending on the size and the site of the lesion. Frequently, as in case 2, the condition may even be entirely symptomless and no sign suggests a gastric tumour. Pain, as in case 1, is the commonest and often the earliest symptom. It is not distinctive and may be attributed to any gastric disease. It is most often observed when the pylorus is involved, as in case 1. Other cases start with vomiting or with hæmorrhage. Melæna seems to be less common in sarcoma of the stomach than in carcinoma and is due to the late ulceration of the mucosa. Palpable epigastric tumours are relatively common, especially exogastric sarcoma, but were not observed in our subjects, for lymphosarcoma, being more infiltrating, does not form a palpable epigastric tumour. Our cases confirm the observation that, in spite of the extension of the tumour, the general state of the patients is conserved and cachexia and loss of weight are relatively late.

Radiologically no sign is consistent in all cases. Several authors agree that every filling defect with regular contours, conserved peristalsis, and normal folds of mucosa should be attributed to sarcoma. Yet case 1 was repeatedly examined without the discovery of any sign of a new growth until malignant infiltration was far advanced, and in case 2 the stomach was radiologically sound. Consequently the diagnosis of sarcoma of the stomach is usually made on laparotomy and histological examination. Laparotomy and biopsy should therefore be performed whenever a non-epithelial tumour is suspected. The histological examination of the tumour is very important in view of the indication which it gives about whether surgical ablation or radiotherapy should be the treatment, according to the type of cell found to compose the tumour.

Treatment.—Though in most cases of gastric sarcomas surgical extirpation should be considered as a method of choice, such tumours seldom reach the surgeon while still operable. This is especially true for lymphosarcomas, whose development is most insidious. In case 1 the stomach was already invaded by lymphosarcoma from pylorus to cardia when laparotomy was performed. When operation is no longer possible, deep X-ray therapy should be considered; it is here that the type of cell is important. Myosarcomas and fibrosarcomas are resistant to X rays, whereas lymphosarcomas, especially the small-round-celled lymphosarcoma but also to a lesser

degree the large-round-celled lymphosarcoma, are very radiosensitive. Under radiotherapy there is usually a rapid local improvement and a return of the growth at the same site is rare. With lymphosarcomas the danger lies in the possible extension of the malignancy to other parts of the organism. The fate of the patient depends to a great extent on whether or not latent or patent metastases exist.

Another important point regarding the administration of X rays in lymphosarcoma is the size of the tumour. Too rapid dissolution of the growth by too vigorous treatment may, in the case of a large lymphosarcoma, lead to a general intoxication of the patient. At first this intoxication resembles X-ray sickness, but finally it may cause cachexia and death. The danger of an overdose is therefore greater than that of an underdose. A patient with a lymphosarcoma, whether gastric or not, should remain under constant control during the treatment and should have frequent blood examinations.

The few reported cases of small-round-celled lymphosarcomas treated with X rays have given satisfactory results. Madding (1939) reports three cases: one of his patients was living and well after 2½ years, and two lived for over 2 years, after irradiation. Our case 1 is still well, symptomless, and fully active more than 3 years after the treatment.

SUMMARY

(1) Two cases of sarcoma of the stomach are reported: (*a*) a small-round-celled lymphosarcoma treated by X rays, the patient being still in excellent health more than 3 years after the treatment; and (*b*) a large-round-celled sarcoma which was not treated, the patient dying after operation.

(2) Diagnosis and treatment are discussed, special emphasis being laid on the value of histological examination and X-ray therapy for the prognosis, and treatment, of gastric lymphoscarcoma.

REFERENCES

Ewing, J. (1928) Neoplastic Diseases, London.
Hesse (1912) *Zbl. Med. Chir.* **15**, 550.
Madding, G. F. (1939) *Proc. Mayo Clin.* **14**, 202.

MEDICAL SOCIETIES

ROYAL ACADEMY OF MEDICINE IN IRELAND

War Injuries

AT a meeting of the academy held in Dublin on Jan. 12, the president, Mr. W. DOOLIN, being in the chair, a discussion on war injuries was opened by Prof. A. CHANCE with a paper on

GUNSHOT WOUNDS OF THE ABDOMEN

There was no essential difference in principle, he said, between the diagnosis and treatment of gunshot wounds and ordinary abdominal emergencies, but there were considerable differences in practice. Unlimited, and frequently unforeseen, lesions were likely to cause unpleasant surprises during the course of the operation, which called for rapid re-planning. Patients were often so gravely shocked they could not stand any prolonged procedure and it was extremely difficult to judge how much one dare do. Moreover, it was not easy to maintain the atmosphere of deliberation and quiet care associated with abdominal operations in civilian practice. He subdivided abdominal wounds into (1) those apparently but not really penetrating, (2) those occasional freak cases in which the abdomen had been penetrated without visceral injury, (3) those in which a hollow viscus had been punctured and the wound had spontaneously healed, (4) the vast majority, in which the wounds of the hollow viscera gave no chance of recovery without operation.

Decision then was extremely simple, for the surgeon should operate when in the slightest doubt about penetration. It was often impossible to forecast the viscera injured—the incision must be wisely planned—or the amount of internal hæmorrhage; operation should therefore not be delayed even by an hour or two. From the experience of 1914–18 we knew that there was no clinical syndrome indicating visceral penetration; the symptoms were secondary to the hæmorrhage and the peritoneal irritation resulting from escape of bowel contents. There might be occasional hæmatemesis from stomach injury or hæmaturia from a kidney or bladder lesion. What operation to perform could never be decided until the abdomen was opened, and even when all the lesions were discovered it might still be difficult to take the wisest course, for what was obviously desirable on mechanical grounds or as a protection against infection might be frustrated by the patient's grave condition. Order of procedure on opening the abdomen was—arrest of hæmorrhage, exploration, repair. He was unhappy when he had to deal with a colonic lesion; the suture was apt to give way and colostomy had a high mortality. Heroic resection, while defensible on theoretical grounds and successfully performed by various surgeons in the last war, was a procedure taking up much time; it was scarcely feasible if there were multi-visceral injuries.

It was admitted that a 50 per cent. recovery-rate in those cases reaching the C.C.S. was the best that could be expected by a competent abdominal operating team. Would this distressing mortality repeat itself in the present war? He doubted if there had been sufficient advance in abdominal surgery in the last 25 years to make much difference. Abdominal injuries sustained in the bombing of cities, where the patients were rushed without delay to full equipped hospitals and treated by surgeons of large experience, would give better results, but given the conditions obtaining in the war of 1914–18—mud, cold and long exposure, a trying journey over rough roads, arrival at the C.C.S. as soon as it was humanly possible but long after the optimum time—he doubted if the mortality would be substantially reduced.

WAR INJURIES OF THE LUNG

Prof. H. S. Meade dealt with the mortality-rate of lung injuries on the field, and pointed out that Duval who operated in almost every case reduced the mortality-rate from 30 to 14 per cent. He criticised the British method in the last war, which was based, he said, on an Oxford primer entitled "Wounds of the Thorax in War." He described the various types of wounds caused by bullets and shell fragments, and described the complications arising in particular types of wounds. Chest cases at the regimental aid-post should be regarded as urgent and be sent down the line before wounds of the limbs At the C.C.S. it was essential to have X-ray and fluoroscopic facilities. He did not consider it necessary to use positive pressure in lung surgery if proper precautions were taken against mediastinal flutter.

Mr. ADAMS MCCONNELL spoke of the necessity for thorough treatment of head and brain injuries. He deprecated interference at first-aid posts, where nothing should be applied except temporary dressings.

REVIEWS OF BOOKS

A Text-book of X-Ray Diagnosis.

Vol. III. By British Authors. Edited by S. COCHRANE SHANKS, M.D., M.R.C.P., F.F.R., hon. director, X-ray diagnostic department, University College Hospital; PETER KERLEY, M.D., M.R.C.P., F.F.R., D.M.R.E., physician to the X-ray department, Royal Chest Hospital; and E. W. TWINING, M.R.C.P., F.F.R., D.M.R.E., radiologist to the Royal Infirmary and the Christie Hospital, Manchester; lecturer in radiology, University of Manchester. London: H. K. Lewis and Co. 1939. Pp. 800. £3 3*s*.

IN the first section of this volume H. W. B. Cairns and M. H. Jupe give a complete description of the normal and pathological appearances of the central nervous system which can be demonstrated radiographically. The chapter on ventriculography and encephalography is particularly enlightening, and the illustrations include all the common and some of the rare conditions, with some excellent cerebral angiograms. The use of tracings helps to demonstrate some of the less obvious changes, and some photographs of pathological specimens show how these changes are produced. H. K. Graham Hodgson writes on the accessory nasal sinuses, labyrinth, and mastoid processes. He describes the technique for correct radiography, preferring the upright position with six standard views. The use of iodised oil in the diagnosis of nasal sinus disease is described, and the radiological interpretation of the puzzling appearances produced by mastoiditis is carefully discussed and illustrated.

The third part sets out at length the changes seen in bones, joints and soft tissues. S. L. Baker contributes a fascinating account of the reactions which unite to produce the picture seen in the X-ray film. He believes that osteoporosis is due to the action of osteoclasts and uses the word "hypocalcification" for conditions where the bony tissue contains less calcium than normal because of a failure to calcify rather than a loss of calcium previously deposited. Further descriptions of bone diseases follow conventional lines; all are adequate and every condition likely to be seen by the radiologist is mentioned. The classification of acute and chronic arthritis is that adopted by the B.M.A. arthritis committee, but even this leaves much difficulty when differentiation of types is attempted. The chapter on orthopædic operations is particularly helpful, for the results of surgery are often confusing. The teeth and jaws have a chapter to themselves in which H. M. Worth has collected some remarkable illustrations. The complex technique for localising foreign bodies in the eye is described by the late E. W. Twining (to whom the volume is dedicated) and S. Cochrane Shanks. Finally Russell J. Reynolds contributes a unique section on cineradiography, a fitting end to an outstanding contribution to radiological literature.

Sex and Internal Secretions

A Survey of Recent Research (2nd ed.). Edited by EDGAR ALLEN, Yale University. Associate Editors: CHARLES H. DANFORTH, Stanford University; and EDWARD A. DOISY, St. Louis University. London: Baillière, Tindall and Cox. 1939. Pp. 1346. 54*s*.

FOR this monumental work Professor Allen and his expert contributors succeed in covering the whole field of the internal secretions, and the documentation is as near complete as possible. The purely chemical side is not dealt with so exhaustively as the biological aspects—the writers of the chemical sections seem to have been instructed to contract their accounts as much as possible. For example, the chapter on the biochemistry of œstrogenic substances occupies only some 23 pages, and although it is a masterpiece of condensation, it seems a pity that Professor Doisy was not given more space. The same applies to the chemical consideration of progesterone and the androgens. On the other hand, the chapter on sex drive could well be reduced in size. It is doubtful whether the chapter on sex function in man is really useful in such a work, for it is not sufficiently full for those who are intended to read it. In this chapter there is a table of commercial preparations, many of which can be of little value. Surely it is a mistake to perpetuate impure extracts of the ovary and testis when clean crystalline compounds are available. The rest of the book is of a very high standard.

Quarterly Journal of Medicine

The January issue (vol. 9, No. 33) contains the following papers:—

TUBEROSE SCLEROSIS, RHEOSTOSIS, AND NEUROFIBROMATOSIS. By G. S. Hall (Birmingham United Hospital). Two unusual cases of tuberose sclerosis are reported. One had bony lesions in skull, ulna, and hand, considered to depend on an associated neurofibromatosis. The other had a bony lesion in certain metacarpals and phalanges of one hand, identical with that described as rheostosis. These associations are explicable on the basis that all three conditions are developmental tissue dysplasias.

THE INTRAVENOUS DEXTROSE TOLERANCE TEST. By R. E. Tunbridge and E. C. Allibone (Leeds). A standard dextrose-tolerance test is described in which 27·6 g. of dextrose are injected intravenously in three minutes. Normal findings are established from observations on 40 healthy medical students. Variations attributable to age, infection, disease, and diet are reported.

ACUTE NEPHRITIS IN CHILDHOOD WITH SPECIAL REFERENCE TO THE DIAGNOSIS OF FOCAL NEPHRITIS. By W. W. Payne and R. S. Illingworth (Hospital for Sick Children, London). From a study of the records of 301 cases of acute nephritis in childhood, it is concluded that the differentiation of acute focal nephritis and acute diffuse nephritis on the basis of clinical findings is impossible.

ATYPICAL MANIFESTATIONS OF LEUKÆMIA. By Maxwell M. Wintrobe and David M. Mitchell (Johns Hopkins Hospital, Baltimore). Fifteen cases of leukæmia are described in which unusual clinical features at first suggested the diagnosis of some other disease; blood examination and autopsy proved them all to be cases of leukæmia. Other problems in the differential clinical diagnosis of leukæmia are discussed.

THE RENAL CHANGES IN ALKALOSIS. By B. M. Nicol (department of medicine, University of Edinburgh). In patients with pyloric stenosis, rendered alkalotic by vomiting or by aspiration of stomach contents, albumin and casts appear in the urine when dehydration is present, but not when alkalæmia and hypochloræmia occur without dehydration. When such albuminuria and cylindruria are present, the urine is acid in reaction although the blood from which it is secreted may be alkalæmic. The appearance of albumin and casts, and this failure of the kidneys to play their normal part in acid-base regulation, are attributable mainly to the dehydration, with resulting hæmoconcentration, and impairment of renal blood-supply.

THE SERUM CHOLINE ESTERASE IN JAUNDICE AND DISEASES OF THE LIVER. By Brian McArdle (department of medicine, University of Cambridge). Values in 40 normal adults range from 51 to 121 units. Of 71 cases of liver disease, 79 per cent. had values below that range. In cases of obstructive jaundice 87 per cent. had values within the normal range, whereas 87 per cent. of cases of hepatic jaundice had values below that range. The determination therefore promises—with certain qualifications—to be of value as a liver function test, and particularly as an aid to distinguishing hepatic from obstructive jaundice.

THE LANCET

LONDON: SATURDAY, FEBRUARY 24, 1940

EXOPHTHALMOS

THE extensive researches of the last few years on the functions of the anterior lobe of the pituitary gland do not seem to have carried us much nearer the promised land wherein all endocrine disorders will be correlated and explained. It seems easier to produce so-called hormones from the gland than to show how they work. The workings of the thyrotrophic hormone are perhaps more amenable to analysis than those of the other anterior lobe factors. Prof. C. G. LAMBIE [1] discusses them under two main headings. First, the effects that depend on the presence of the thyroid gland and are attributable to increased functional activity of that organ, and secondly those that can be demonstrated in thyroidectomised animals and are presumably independent of thyroid secretion. The principal phenomenon under the second heading is exophthalmos, which recent experimental work has done a good deal to clarify.

Exophthalmos has been produced in animals with thyrotrophic extract in a number of laboratories, but the results have not always been uniform, even with the guineapig, the animal mainly used in these experiments. Most investigators have been content to decide whether exophthalmos is present by visual examination, but PAULSON [2] measures the distance between the two corneal surfaces with callipers, and has thereby shown that thyrotrophic extract produces exophthalmos every time in normal or thyroidectomised guineapigs, usually within twenty-four hours of the first injection. A similar method has been independently developed by E. E. POCHIN, who demonstrated to a meeting of the Physiological Society in December that the inter-ocular distance, expressed in relation to the body-weight, is consistently increased in treated guineapigs. POCHIN has found no obvious difference between the response of thyroidectomised and of normal guineapigs, when account is taken of changes in weight, and the differences noted by observers who rely on visual estimation of exophthalmos probably depend on the fact that protrusion of the eye is less obvious in normal animals because they lose weight when treated with thyrotrophic extract, whereas thyroidectomised guineapigs do not. Professor LAMBIE suggests that exophthalmos may arise from the thyrotrophic hormone acting through two different mechanisms: (1) sympathetic hypertonus resulting from the secondary hyperthyroidism; and (2) accumulation of fat in the retrobulbar tissues, leading to a rise in the retrobulbar tension. As SMELSER [3] has shown, œdema of the orbital tissues may also be concerned. Exophthalmos may be observed both experimentally and clinically in the absence of the cervical sympathetic, according to SMELSER and BRAIN,[4] so that the sympathetic hypertonus is not an essential factor. The Psalmist seems to have been right when he said "Their eyes stand out with fatness."

Although thyrotrophic pituitary extract is the only agent whereby we can experimentally produce the cardinal features of Graves's disease—enlargement of the thyroid gland, thyrotoxicosis and exophthalmos—there is no direct evidence of an excessive amount of thyrotrophic hormone in the blood and urine of patients with that disease. Furthermore, it is possible that experimental exophthalmos results from the action not of the thyrotrophic hormone per se but of some other pituitary substance. Iodine, inorganic iodide and di-iodotyrosine, which are all capable of bringing about a remission in exophthalmic goitre, are also able to prevent or diminish the rise of respiratory metabolism and the morphological changes in the thyroid gland induced experimentally with thyrotrophic hormone. Here the experimental and clinical conditions are in unison. Nevertheless, we are not yet justified in concluding that clinical exophthalmos always indicates hypersecretion of thyrotrophic hormone.

MEDICAL RESEARCH JUST NOW

MEDICINE deals with things as they are, not as they were or should be, and naturally war presents medical problems peculiar to itself. But war does not necessarily mean the abandonment of the research problems of peace, and indeed for many of these war offers an opportunity which can never be obtained under peace conditions. This is made clear in a scholarly preface to the report of the Medical Research Council for 1938–39, summarised on a later page. The work of the council during the war of 1914–18 is an eloquent witness of what can be done when the brains of a nation are mobilised and the work of the experimentalist at home is coördinated with the observations of selected personnel in the services at home and abroad. The research work of that time was published in a series of classical reports, many of which still represent the last word on a given subject twenty or more years after being written. The work of those times is associated with names that are household words—BAYLISS, STARLING, BULLOCH, CANNON, HEAD, LEISHMAN, DALE, LAIDLAW—and a score of others each in their several capacities contributing to such problems as surgical shock, anaerobic infections, dysenteric infections, the difficulties of the airman, antiseptics, and the treatment of wounds. That time, too, was the beginning of organised investigation into problems of nutrition and the applied physiology then learned has yielded results

1. *Med. J. Aust.* 1939, **11**, 819 and 853.
2. Paulson, D. L. *Proc. Mayo Clin.* 1939, **14**, 828.
3. Smelser, G. K. *Amer. J. Ophthal.* 1937, **20**, 1189.
4. Brain, W. R. *Lancet*, 1939, **2**, 1217.

of far-reaching importance not only for that war but also for peace as well as for the war that is now upon us.

Up to and including the South African War the mortality among combatants was caused more by disease than by instruments of destruction, but from 1914–18 this order was reversed; the prophylactic treatment of typhoid and tetanus greatly reduced the incidence of at least two hazards; the greatest mortality among those whose actual wounding was not fatal for physical reasons was due to infection of their wounds with anaerobic organisms. And now, at the outset of yet another war it may well be that the bogy of infection will be controlled by the proper use of the chemotherapeutic substances which are now available. Should fighting really begin, there will be ample opportunity for assessing the value of prophylaxis or treatment with sulphonamide compounds in gas-gangrene, staphylococcal, and other infections which are difficult to estimate experimentally in animals. There can be little doubt that neither pneumonia nor meningococcal meningitis will in this war be the menace that it was in the last, whilst the tremendous disability produced by the gonococcus should be effectively reduced and the optimum method of treatment clearly defined. As to wound shock, there have been no great advances during twenty years of peace. It is undoubtedly true that gross injury to tissues brings into play factors which disturb both the nervous system and the normal chemical reactions of the body, but the mechanism by which these factors work is quite unknown. Should air-raid casualties occur, such problems can be studied on the home front as well as in the field. In shock the importance of increasing the amount of fluid in the general circulation is still recognised; this war may decide which is the most practicable fluid for the purpose, whether refrigerated whole blood provided from an elaborate and costly banking system, human serum, fluid or dried, human plasma, or some artificial substitute more acceptable than gum-saline.

In this war new problems will doubtless arise, either from destructive agents due to man's perverted inventiveness, or from sudden and unexpected attacks by the avenging hand of nature. The need for research to meet such problems has been foreseen. Well-equipped laboratories at home and abroad have been provided for the Army. Selected workers to deal each with problems for which they are peculiarly fitted have been mobilised. The respite which HITLER has granted should stand this organisation in good stead and enable the Medical Research Council to repeat its triumphs of the last war.

HERPES

MOST virus workers agree that herpes virus is an independent agent which does not arise spontaneously. And since in most cases of herpes there is no evidence of infection from without one is forced to conclude that the majority of those who suffer from this condition must carry the agent of it. Naturally this cannot be true of all cases, since the carrier state must have its origin in infection in the first instance, and we know now from the work of DODD, JOHNSTON and BUDDINGH,[1] and of BURNET and LUSH,[2] that the primary infection most probably takes place in the early years of life and takes the form of a herpetic stomatitis. If a person is not infected in the first two or three years of life he apparently becomes insusceptible to the virus and remains a non-herpetic subject for the rest of his life.

From the work of ANDREWES and CARMICHAEL[3] and of BRAIN[4] in this country, and the more recent investigations of BURNET and LUSH[2] in Australia, it appears that the carrier state is associated with the presence of specific antibody in the circulation. This conception is not so contradictory as appears at first sight. There is evidence that the presence of antibody in the blood-stream is not necessarily a guarantee against infection. In experimental influenza, for example, the convalescent ferret becomes susceptible to reinfection while still in possession of circulating antibody. The herpetic lesion is a superficial one and the virus may be carried in some situation, such as the central nervous system, where it would be peculiarly inaccessible to circulating antibody. And should the antibody level fall below what was necessary to protect epidermal cells, the virus, lit into activity by one of many exciting causes, would multiply and tracking to the surface produce the characteristic vesicular eruption. This question of the correlation of the herpetic carrier state and the presence of herpetic antibody in the circulation ought to be capable of proof or disproof. The treatment of disease by hyperthermy commonly results in an outbreak of herpes, and if herpes only develops in those adults who carry the virus and therefore possess herpetic antibody, then one should be able to foretell which patients will develop herpes by estimating their antibody beforehand.

Another point which remains unsettled is the site where the herpes virus is carried. In their paper on recurrent traumatic herpes in our issue of Feb. 10 FINDLAY and MACCALLUM pointed out that there are three possible sites: the epidermal cells, the nerve-endings, and the ganglion cells of the nerve-roots. In a case they described, one of recurrent herpes at the base of the right index finger in a child who had damaged her hand in a fall, herpes virus could not be demonstrated in epidermal scrapings taken from the affected site between the attacks. A similar failure was recorded by NICOLAU, POINCLOUX[5] in their investigation of a case of recurrent herpes on the index finger of a hairdresser, and the experiments of STALDER and ZURUKZOGLU[6] with skin grafts in cases of recurrent herpes also suggested that herpes virus is not carried in the epidermal cells. FINDLAY and MACCALLUM think that the spinal

1. Dodd, K., Johnston, L. M., and Buddingh, G. J., *J. Pediat.* 1938, **12**, 95.
2. Burnet, F. M., and Lush, D., *Lancet*, 1939, **1**, 629.
3. Andrewes, C. H., and Carmichael, E. A., *Ibid*, 1930, **1**, 857.
4. Brain, R. T., *Brit. J. exp. Path.* 1933, **14**, 67.
5. Nicolau, S., and Poincloux, P., *Ann. Inst. Pasteur*, 1924, **38**, 977.
6. Stalder, W., and Zurukzoglu, S., *Zbl. Bakt.* 1936, **136**, 94.

ganglia corresponding to the skin area involved is the most likely situation for the virus. Against this must be placed the failure of BURNET and LUSH [2] to isolate herpes virus from gasserian ganglia removed post mortem from people who were free from labial herpes at the time of death, though this failure is offset to a certain extent by the demonstration by HOWARD [7] of degenerative and infiltrative changes in the gasserian ganglia of patients whose fatal illness was associated with labial herpes. It is obvious, as FINDLAY and MACCALLUM conclude, that we need more facts if we are to solve this interesting question.

7. Howard, W. T. jun., *Amer. J. med. Sci.* 1905, **130**, 1012.

ANNOTATIONS

SECOND THOUGHTS ON EVACUATION

Mr. Walter Elliot is loth to relinquish his rôle as the modern pied piper, and last week in the House of Commons and on the wireless he assured us once more that evacuation was a vital part of the national defence. The Government's proposals to help the evacuee and his hostess are set out in a memorandum [1] from the Ministry of Health to local authorities issued on Feb. 15. The growing appetite of the growing child is recognised and after March 2, 10*s*. 6*d*. a week will be paid for each billeted child over fourteen. A new roll of householders is to be compiled so that those who do not have children billeted on them may be called on to help the actual hostesses to look after the children. It is hoped that in this way the labour will be more evenly distributed. Local authorities are also urged to develop sick bays and hostels for difficult children, and to provide communal midday meals, for which ration coupons will not be needed.

So much for the 400,000 children who have remained in the reception areas. For those now in the danger areas the Government proposes a second exodus of school-children if and when the bombs fall. Parents who register their children under this new scheme will be asked to sign an undertaking that the children will be duly sent when the time comes, and, once sent, will not be withdrawn till the whole party returns. But registration will remain voluntary. Mr. Elliot promises that the children will be medically examined and billeting officers are asked to reserve hostel accommodation for children who prove unsuitable for ordinary billets. It is proposed that where possible the medical examination should be made before evacuation. The new proposals include no plans for children under five, who are the most difficult group to accommodate satisfactorily, and must therefore be considered incomplete.

Last September evacuees were dispatched to unknown destinations; reception areas awaited unknown guests. But now we have a little time in hand, and it might be possible for the two areas to get acquainted. Committees of parents from each area might exchange visits, and perhaps the evacuation area instead of being the passive partner could take its share in the preparations. This need for closer contact between the two areas is stressed in a report issued by the Association of Architects, Surveyors and Technical Assistants,[2] which describes how evacuation has worked in Wantage and the surrounding villages. Children have been found to settle down best in billets of their own social level. The prolonged interruption of the education of local children caused by the double-shift system has been resented, and the report recommends that full-time education for all should begin again as soon as possible. It suggests that country and town schools should be kept separate if only because of their different degrees of immunity to infection. Evacuation in the Wantage district has been most successful where there were opportunities for a communal life for the evacuees, such as a village hall or a live women's institute. If evacuation is to be a success it is urgent that where these are lacking they should be provided. The report concludes that if this policy were adopted and evacuation treated as a social problem we could "enrich rural life and at the same time broaden that of the town."

1. Memo. Ev. 8 (enclosure to Circular 1905). H.M. Stationery Office. 4*d*.
2. Evacuation in Practice. Obtainable from the A.A.S.T.A., 57, New End, London, N.W.3. 1*s*.

OBSTETRIC CARE IN CANADA

DOCTORS in this country who read the report of a committee of the Canadian Medical Association on hospital obstetric practice [1] may conclude that our system of maternity services has certain advantages over those of Canada. Our compulsory notification of puerperal pyrexia, for example, which is not enforced there, ensures the early investigation of infected cases by an independent authority whose primary object is to prevent the spread of infection. Again, our midwives and the machinery by which they are controlled give most women the chance of a physiological confinement, whereas in Canada and the United States the midwife as we know her does not exist and parturition seems therefore to become more of a pathological process requiring elaborate management. In Canada maternity nursing is carried out by general trained nurses whose duties are those of a nurse only, although they have some special training in midwifery, and the delivery of every case is conducted by a doctor. In the large hospitals this fundamental difference matters little, for the attendants, both medical and nursing, are under the control of specialists, independent practitioners are excluded or restricted, and it is only a question of where the line between the responsibilities and duties of the medical and nursing staffs is drawn. In small hospitals, however, every patient may be under a different practitioner, and the nursing staff occupies a subordinate position.

While not going at length into the relative merits of hospital and home care, the report expresses the view that, raised to a proper standard, hospital care brings increased safety to the patient, though if a high standard is not maintained the hospital subjects its patients to two dangers—cross-infection and injudicious interference encouraged by the convenience of hospital equipment. The routine the committee advise may be practicable for a large unit in a medical school, built regardless of cost and abundantly staffed, but the busy practitioner in a small country hospital will be unable to see the wood for trees if he does what the report suggests. At no London hospital, for instance, would the attendants have time or inclination to note half the details recommended for the patient's clinical record. Stress is laid on the importance of organised medical supervision of obstetric departments, whether large or small. This same point was

1. Obstetrical Procedures and Practice in Hospitals. Issued by the department of hospital service of the Canadian Medical Association. 1940. Pp. 41. 25c.

made by the maternal mortality committee of the Ministry of Health some ten years ago, and since then there have been many examples in the British Isles to prove its importance. Experience suggests that unification of control of a department and the intelligent application of recent advances in our knowledge of the causation and nature of puerperal infections are of far greater importance than the elaboration of hospital accommodation and delivery technique advocated in this report. In the section on small hospitals the importance of standardisation of technique and control is impressed on the reader, but it seems that the enforcement of the regulations depends on the hospital officials and the doctors concerned alone. The difficulties of enforcement are likely to be considerable without compulsory notification of puerperal pyrexia and the legal backing of a medical officer of health.

THE SIGNIFICANCE OF ROULEAUX

BLOOD kept for a few hours in vitro at body temperature loses its power to deposit a sediment, and at the same time the erythrocytes become smaller and fatter. These changes were reviewed in our columns last year by Fåhræus,[1] to whom we owe much of our knowledge of the subject. In the body similar changes go on; Fåhræus emphasised that both cells and plasma are active in the process, an enzyme called lysolecithin probably being the chief factor in the plasma. When erythrocytes are separated from their plasma they become spherical and lose their tendency to form rouleaux and consequently to form a sediment—in other words they undergo pre-hæmolytic changes. If we remember that in the spleen such a separation of cells and plasma takes place, Fåhræus's conception of the part played by the spleen in blood destruction at once becomes intelligible. The theory is supported by indirect experimental evidence and Mellgren[2] has shown that blood coming from the splenic veins of cats has an increased fragility. The interest of this work lies in the light it may throw on physiological processes and also on those obscure diseases, the hæmolytic anæmias.

On the clinical side Dameshek[3] has made a plea for a greater use of direct observation on the thickness of the red cells. This may be studied in fresh preparations of blood, and in acholuric jaundice, where the condition is most obvious, the small, fat spherocytes are easily recognised. Dameshek, however, believes that an even simpler method of determining the thickness-diameter relation is to watch rouleaux formation in fresh preparations of blood. When a drop of normal blood is placed on a cover-slip which is then dropped on a slide the cells tend to aggregate in rouleaux like a pile of coins, each cell fitting snugly into its neighbour. The size of the rouleaux and closeness of approximation of the cells are not constant and depend, among other things, upon the fibrinogen content of the plasma and the sedimentation-rate, but the picture is fairly characteristic. In photomicrographs the thickness of the cells in rouleaux may be compared with the diameter of any free cells and the ratio is usually found to be about 1 to 4. In certain pathological conditions, such as acholuric jaundice, where many of the cells are spherocytes, the rouleaux are short, ill-formed and often bizarre, and the thickness-diameter ratio may be 1 to 2. The explanation of the disordered grouping is physical, for the red cells are more like marbles than coins and in attempting to form rouleaux they remind one, as Dameshek says, of a number of fat people trying to get into a small elevator. This observation fits in with some of the newer physiological facts and may serve as a rapid and easy pointer to spherocytosis and to the probability of an unknown anæmia being of the hæmolytic type.

There are many other problems awaiting the combined attack of physiologist and clinician—for example, why splenectomy in acholuric jaundice may cure the patient and leave the blood in its original fragile state. But when these two get together such terms as "idiopathic" and among the anæmias "hæmolytic" may become part of medical history.

1. Fåhræus, R. *Lancet*, 1939, **2**, 630.
2. Mellgren, J. *J. Physiol.* 1939, **94**, 483.
3. Dameshek, W. *New Eng. J. Med.* 1939, **221**, 1009.

THE INTERNATIONAL HEALTH ORGANISATIONS

IN spite of adverse conditions of a European war both the International Health Office in Paris and the Health Organisation of the League of Nations are showing signs of vigorous life and even of growth. The Paris office still collects and distributes current epidemiological information and by various ingenious devices and with the help of health departments and governments has even accelerated some of its services. The archives and some of the staff moved out of Paris at the beginning of the war, but the office is now reunited and working as usual at its headquarters in the Boulevard Saint-Germain. The governments of Hungary and Slovakia have joined the office since the war started. A meeting of the finance committee was held in January, at which the neutral character of the International Public Health Office was emphasised and a number of executive decisions were taken, among them a provisional decision to call a meeting of the permanent committee at the end of May. The Health Committee of the League held its first war-time meeting in November. It was fully attended and included members from Belgium, Denmark, France, Hungary, India, Poland, Rumania, Switzerland, Turkey, the United Kingdom and the United States, as well as the director-general of the Paris office. The committee's main task was to adjust the work of the Health Organisation to war conditions and to the necessary cuts in its budget. It was found possible to continue the important services of biological standardisation, epidemiological intelligence and the Singapore bureau, and also a number of studies on which a considerable amount of work has already been expended, such as the analysis of the statistics of rabies and of the results of radiological treatment of cancer of the cervix, and the unification of national pharmacopœias. In addition, fresh activities have been set on foot, notably on anti-epidemic work among Polish refugees in Rumania and Hungary, on medical problems of evacuation—a conference on which is to be held at the beginning of next month—and on epidemiological problems of war-time.

An important new development in connexion with the technical activities of the League, including health, was inaugurated by the adoption by the Assembly in November of the recommendations contained in the Bruce report. These proposals are intended to remove the technical activities of the League from the control of the Council, with its predominantly political interests, and to create a separate but related organism to control them, under the direction of a new Central Committee for Economic and Social Questions. By this means it is hoped to attract states who are not members of the League to coöperate in its non-political activities. This is not a very propitious time for the inauguration of this venture which may prove of the utmost importance in the history of the League. However, a meeting of the committee that is to organise it has just been held at The Hague under

the chairmanship of Dr. Colijn, the British delegate being Mr. R. Assheton, M.P., parliamentary secretary to the Ministry of Labour. Many problems connected with the relations of the new body to the other organisms of the League and to the International Labour Office will have to be worked out before the Central Committee for Economic and Social Questions can be successfully set up.

SEXUAL INTERGRADES

THE study of naturally occurring intersexes, who possess the gonads of one sex with some of the secondary attributes of the other, is being increasingly supplemented by experimental methods. This is particularly the case in examination of the theory that accidents leading to a developing organism of one sex coming under the influence of an excess of the hormone proper to the other sex play a major part in the formation of intersexes. The free-martin, a genetic female calf which has become intersexual under the influence of a twin male as a result of anastomosis of placental blood-vessels, is the familiar illustration of this effect. The availability of pure sex hormones has enabled experiments to be carried out in which embryos have been subjected to the influence of œstrone or testosterone, and certain of the phenomena found in natural intersexes have been reproduced. Zuckerman and Groome [1] have now ingeniously combined the two methods of approach. Their subject was an intersexual Large White pig which possessed degenerate scrotal testes, vasa deferentia, vesiculæ seminales and a prostate, as well as uterine horns of normal size, a corpus uteri and a vagina which opened into the urogenital sinus, the external genitalia being of female type. Both riding of sows and œstrous behaviour had been observed. The animal was treated with androgen, then with œstrogen, and was finally castrated. In a series of laparotomies portions of tissue were removed before any treatment and thenceforth after each stage of the experiment. Comparing the initial histological picture with later ones, it was found that administration of androgen led to a change in the original structure and that this was restored by the œstrogen which followed. From this it was concluded that the dominant endocrine influence when the animal was in its original condition was œstrogenic, and the occurrence of regressive changes after castration indicated that the testes were the source of this œstrogenic influence.

According to current theories of intersexuality in mammals there are differences from one species to another in the nature of the genetic and endocrine factors influencing the embryo, in the relative importance assigned to them, and in the times at which they are assumed to be active, and Zuckerman and Groome have at least introduced a simplification by concluding that the morphogenesis of intersexuality in the pig is similar to that in man according to Witschi.[2] The crux of this theory is that the intersexual man, or pig, is a genetic male which has been feminised by passage of an excess of "maternal hormone"—i.e., œstrogen—from the mother, whose genetical constitution gives rise to this abnormality. Various forms of natural sexual intergrades can be accounted for if variations in the intensity and the time of application of the maternal stimulus are assumed. The mechanism and conditions of this passage of hormone to the embryo are, however, by no means clear, the nature of the hereditary factor is uncertain, and the problem of the "switch" in the hormonal character of the gonad remains unsettled. An analogy, though not a very helpful one, to this last phenomenon may be drawn with the gonad of the free-martin, which acquires a greater or less degree of testicular character correlated with the degree of masculinisation of the secondary sexual characteristics. There is evidence that the testes of the boar normally have a high content of œstrogen, but nevertheless the apparent suppression of androgenic activity to such an extent that testicular function is reversed is difficult to explain. Aberrant activity of the adrenal cortex plays no part in intersexuality in the pig. Intersexuality in the human arising from this cause has received attention of late because of the possibility of diagnosis by examination of the urinary excretion of steroids, but types resulting from other influences on embryonic development are of importance, and, with all reserve in the transference of conclusions from one species to another, the work of Zuckerman and Groome is a useful step towards understanding the phenomenon of the human sexual intergrade.

1. Zuckerman, S., and Groome, J. R., *J. Anat., Lond.* 1940, **74**, 171.
2. Sex and Internal Secretions. London. 2nd ed. 1939.

BIOLOGICAL APPROACH TO CHEMOTHERAPY

VARIOUS stages in the growth of the chemotherapy of sleeping sickness have already been recounted in these columns.[1] A further chapter in the story was unfolded before the Royal Society of Tropical Medicine and Hygiene last week by Prof. Warrington Yorke. An interesting feature of these researches is the way in which they arose and developed directly from fundamental observations on the metabolism of trypanosomes. When Yorke, Adams and Murgatroyd [2] were elaborating their classical method for the maintenance of trypanosomes they demonstrated the enormous utilisation of glucose by the parasites. This stimulated intensive research into the carbohydrate metabolism of trypanosomes and of animals infected with them, and N. and H. von Jancsó,[3] having reached the conclusion that Germanin acts by interfering with the carbohydrate metabolism of the parasites, decided to examine the action of the hypoglycæmia-producing guanidine derivatives in experimental trypanosomiasis. They found that a number of these derivatives, especially Synthalin, exerted a definite therapeutic action on mice infected with *Trypanosoma brucei*. It seemed hardly logical, however, to assume that hypoglycæmia compatible with the life of the host could affect its trypanosomal infection, and Lourie and Yorke [4] later showed by tests in vitro that synthalin was a direct and powerfully trypanocidal substance. This discovery obviously opened up a new field of chemotherapeutic research, and Mr. H. King, F.R.S., of the National Institute for Medical Research, prepared a number of analogous trypanocidal substances of constitution entirely different from any hitherto known.[5] The research was carried a step further, in collaboration with Mr. A. J. Ewins, Ph.D., of Messrs. May and Baker, by the production of allied compounds containing aromatic linkages, certain of which proved to be of remarkable trypanocidal activity. What was even more surprising was that in addition to being active against *T. rhodesiense* they exerted a powerful action against *Babesia canis* and *Leishmania donovani* and some action against *T. congolense* and certain malaria parasites of man and monkeys. The preliminary results of the practical trials against human trypanosomiasis and leishmaniasis, which are now pro-

1. *Lancet*, 1937, **2**, 87 and 1381.
2. Yorke, W., Adams, A. R. D. and Murgatroyd, F., *Ann. trop. Med. Parasit.* 1929, **23**, 501.
3. Von Jancsó, N. and von Jancsó, H., *Z. ImmunForsch.* 1935, **86**, 1.
4. Lourie, E. M. and Yorke, W., *Ann. trop. Med. Parasit.* 1937, **31**, 435.
5. King, H., Lourie and Yorke, *Lancet* 1937, **2**, 1360.

ceeding, are distinctly encouraging, the more so when it is remembered that the present compounds represent but the early members of a series that is still capable of further modifications. The way in which the resources of the medical schools, the Medical Research Council and the chemical industry have all been utilised in these investigations augurs well for the future development of chemotherapy in this country.

MASS RADIOGRAPHY OF THE CHEST

MASS X-ray photography has excited interest lately owing to the possibility of applying it to recruits and militiamen in the detection of early symptomless pulmonary tuberculosis. Once the apparatus has been installed a permanent record of several hundred persons can be made each day at a cost of less than 1*d*. per exposure and with a reliability almost equal to the full-sized celluloid film. The value of this method and the technical problems connected with it were ventilated at a meeting of the Tuberculosis Association on Feb. 16. Dr. D'Arcy Hart and Dr. Andrew Morland gave the results of the investigation they have conducted during the past three years on medical students at University College Hospital and have described in our columns.[1] The investigation was "leisurely" and ordinary celluloid films were used; it was also "periodic" and most of the students were X-rayed on more than one occasion. Out of 417 students examined 26 (6·2 per cent.) were found to have important lesions in their chest, 8 of these were advised to go to a sanatorium, and 4 others to lead a restricted life. Although the medical student, from the nature of his occupation, cannot quite be viewed as an ordinary person, yet these figures illustrate what mass radiography of an apparently healthy group of young adults will reveal. Dr. Cochrane Shanks, addressing the meeting later, pointed out that the application of the process to recruits for the fighting services, when many thousands must be examined in a short time, demands certain modifications. Here the investigation cannot be leisurely and the ordinary film would be too costly. Moreover, a periodic review is not feasible and only one record at the time of admission into the service could be taken. Dr. Shanks demonstrated how miniature photography of the fluorescent screen image provides the solution to the problem and is now, technically and economically, a practical proposition. Important points to remember are the need for a standardised technique, uniformity in the developing process, the filing of the miniature radiograms at a central registry and the expert interpretation of the films by a central board of radiologists and chest physicians.

Two firm conclusions can be drawn from this discussion. First, if mass radiography is to be successful a specially constructed unit must be used and amateurish attempts at modifying existing apparatus will not achieve constant results at the requisite speed. Such a unit is the one described to the association by Mr. Sutton of Messrs. Stanley Cox and called by him the "Pulmograph." It costs under £1000. Secondly, the time for discussion is now passed. The usefulness of the method in saving money and lives by preventing the unfit from becoming enlisted is admitted. Many of the difficulties have already been envisaged and surmounted and those that lie ahead can be overcome as they arise. It only remains to put it to the practical test, and there is an unequalled opportunity for doing so now.

1. D'Arcy Hart, P., Hilton, G. and Morland, A. *Lancet*, Feb. 10, 1940, p. 263.

GASTRIC CANCER IN YOUNG PEOPLE

DURING the last thirty years there have been 96 cases of carcinoma or sarcoma of the stomach at the Mayo Clinic in patients under thirty. Phillips[1] has now analysed these cases, in all of which the diagnosis was confirmed by biopsy, operation or both. At that age there would of course be a relatively high proportion of sarcomata and the ratio in the series was 15 carcinomata to 1 sarcoma, the usual proportion among all age-groups being about 110 to 1. Of the 6 cases of sarcoma 4 were lymphosarcomas and 2 of these are alive and well about a year after operation. The sarcomas were all large growths and had penetrated the stomach wall when the patients came to operation. In his paper in this issue Hochmann says that the development of the lymphosarcomas is most insidious and that they are seldom of a size to be operable when first seen by the surgeon. But fortunately they are sensitive to radiation, and he reports a case treated by X rays in which the patient is in good health three years after treatment. There seems to be no typical clinical picture in sarcoma of the stomach: there may not be anything to point to a gastric lesion and even radiological examination gives no consistent sign, though the regularity of the contour of the filling defect and the conserved peristalsis may be suggestive. Phillips found several features in the 90 cases of carcinoma to support the general opinion that it is deadlier in young patients than in later life. The average diameter of the tumour was 9·4 cm., compared with MacCarty's finding[2] (quoted by Phillips) that the average for a . ages is 6·1 cm. Half the tumours were of the soft friable medullary type which shows little fibrosis, a third were of the crater type, and the remainder of the scirrhous or leather-bottle type. Metastases had already involved the lymph-nodes in two-thirds of the cases, while MacCarty's series showed lymph-gland metastasis in only just over half. Krukenburg's tumours of the ovaries were found in 6 of the 36 female patients—a very high proportion. Metastasis was found to have involved unusual sites, such as the spleen, arm, sternum, brain and umbilicus, in several instances. In older people the pylorus is the most usual site for carcinoma. In these young patients 45 of the tumours involved the lesser curvature, 19 of these involving the rest of the stomach as well; 8 were on the greater curvature; 4 in the middle of the stomach; 6 in the cardio-œsophageal region; 24 in the antrum; and 9 at the pylorus. There are then some definite distinctive features in malignant disease of the stomach in patients under thirty, and with a spread so rapid it must be a piece of rare good fortune if a patient comes to operation soon enough to have any chance of cure.

1. Phillips, R. B., *Proc. Mayo Clin.* 1939, **14**, 741.
2. MacCarty, W. C., *Amer. J. Cancer*, 1933, **17**, 25.

SINCE the announcement in the *Lancet* (Jan. 27, p. 196) of the forthcoming *United Hospitals Magazine* a tenth hospital out of the thirteen London teaching hospitals has become represented on the editorial board. The first issue has been successfully launched under a light-blue cover bearing a clever design of a blot shaped like the London postal area, emerging from which the river Thames becomes transmogrified into a serpent, complete with forked tongue, climbing two vertical rules possibly intended to represent a caduceus. The contents of the first issue are slight, but there must be plenty of talent among the metropolitan medical students, who should rally to the support of their new periodical.

THE PROBLEM OF ADOLESCENCE

The Morison lectures delivered at the Royal College of Physicians, Edinburgh, on June 8 and 9, 1939, by HENRY YELLOWLEES, M.D., F.R.C.P., *physician for psychological medicine to St. Thomas's Hospital*

IV *

Now it is high time for us to return to the general practitioner who all this time has been waiting in the drawing-room for mother who "wants to have a little talk with him first." She generally does. If any member of our profession deserves our whole-hearted sympathy, it is he. Let us regard his unhappy plight. Fifty years of voices crying in the wilderness have not been entirely without result. The day of the Victorian physician, who used to "detect neurosis" is over. He never "diagnosed" neurosis, he "detected" it, in a manner suggestive of a combination of Sherlock Holmes and the chairman of a vigilance committee. The physician can no longer banish his patient to the lost legion of medical outcasts by pronouncing that word of doom "hysteria," because people are beginning to know a little about hysteria. No, he has got to the length of talking about "a psychological factor." That goes down well nowadays, and it is not as a rule the physician's fault if he has no very clear idea of what he means by the phrase.

It can safely be said that during his entire student career not a man of those who graduated, say, more than fifteen years ago, and not so very many of those who have graduated since, received so much as two hours' really helpful and practical instruction on the psychological approach to medicine. Nobody knows better than I how many practitioners have sought to remedy this by earnest and painstaking self-teaching, from books and in other ways, but many cannot do this, and many more would not even if they could. It is not surpising that this ignorance breeds irritation, fear and dislike, and the situation is not helped by the public pronouncements the practitioner reads on the subject, which, I admit, are often the bland and futile generalities of medical personages, the outpourings of embittered cranks, or the effluvia from the tub in which rival schools of fanatics insist on washing their singularly dirty linen. I suggest that the true physician feels in his inmost heart that what he calls "the psychological factor" is the biggest and most real thing in medicine, and that he realises, regrets, and attempts to remedy his ignorance of it, so far as is consistent with the necessity of getting through his work and earning his living. It is an unpleasant situation to feel that one is not equipped to deal with the greatest and most vital factor in medicine, and it is not surprising that some react by washing their hands of it and labelling it as a small, "queer" and dangerous specialty which is best left alone. Others go to the opposite extreme and attempt, with varying success, to make it clear that there is little in it, and with that little they are very familiar. "We all use psychology unconsciously every day." I wonder where that quotation comes from? It seems familiar!

If my lecture yesterday made anything plain, it was surely this—that the methods of general medicine are utterly useless if we are to make any real study or examination or effective treatment of the problem we are discussing. By themselves, they lead us nowhere. They must be, not abandoned, but broadened and expanded. The moment we face the difficulties of an adolescent, however they may express themselves, we must surely find—how can we fail to find?—that we have to deal, not with the general concepts of physiology and pathology, not with the structure of nerve cells, but with the study of individual personalities. Mind is not matter, and can never be known in the same way or by the same methods. You cannot understand personalities, you cannot even talk sense about personalities, unless you have room for conceptions of values with which the medical science we were taught, and indeed the scientific method in general, has no concern. It may be that we do not in our hearts earnestly believe that valerian is really the beginning and end of the treatment of hysteria; we may have private doubts whether belladonna plus a waterproof sheet is an all-sufficient way of dealing with enuresis; it is possible that the bromides are not really the last word in a case of tic or habit spasm, but, as I am often told, "You see, I've got to be careful in my practice." In the old days the average practitioner would have gone on to point out that these "new-fangled" psychological ideas and methods were not "scientific," but that very effective way of escape is closed to him now, if he is an honest man. He knows in his heart that "this psychological stuff" is based on foundations as remorselessly and scientifically certain as mathematics; he knows that though medical psychology may have its full share of cranks and humbugs and worse, yet its contribution to the understanding of adolescence and the treatment of its difficulties stands alone in its value and importance, and he knows, too, that in this matter of being scientific, the boot is very much on the other foot. The record of general medicine, so called, in treating neurosis is not such that it can venture to call medical psychology unscientific. Far from being so, it is, in fact, too scientific—as I have been trying to point out.

But there is yet another difficulty before the practitioner—the bewildering variety of the symptoms his adolescent patient may show. Medical psychology has demonstrated conclusively that what are called "bodily symptoms" (whatever that means) may, more often than not, be nothing but the outward and visible signs of an inward and psychological maladjustment, which is the matter really needing attention, and that in every disease and in every symptom, from a cut finger to a broken heart, there is a "psychological factor," even though it be but the view the patient takes of his illness. But with this fact staring us in the face, we still repeat the old formula: "Be careful to exclude organic factors before assuming psychological ones." If it were turned round to read: "Exclude psychological factors—if you can and dare—before assuming organic ones," it might go some little way towards preventing the commonest error in medicine. The practitioner is thus faced with the fact that, especially among adolescents, the reaction to psychological stress and strain may be expressed by the individual in the language of body or of mind. When there are physical signs and symptoms, the average physician is quite happy. He explains convincingly, in terms of body, *how* they arose, but still tends to preserve a discreet silence on the deeper and far more vital question of *why* they arose. His position becomes difficult when no theory, known or

* This concludes the verbatim publication of two lectures submitted by Colonel Yellowlees before he left to take up his work as consulting psychiatrist to the B.E.F.—ED. L.

improvised, will explain the bodily symptoms, and harder still when there are no bodily symptoms at all. In such cases, by the way, he is rarely called in till the situation is pretty desperate. The parents of adolescent children are so made that if a boy, let us say, stays out every night till the small hours, defies his father, abuses his mother, cheats his brother, bullies his sister, and generally shows gross signs of heading for mental and moral shipwreck, they have no hesitation in propounding theories in explanation, and mapping out a line of action which they are quite convinced will be effective. "Every man his own psychologist" dies hard, and "Every man honorary psychologist to his own children" is immortal! On the other hand, if the boy wets the bed, or vomits, or masturbates, or has headaches, or faints, or stammers, or has habit spasm, the doctor is summoned forthwith. Once he has been called in, things proceed along very familiar lines. Sooner or later the physician starts the ball rolling by mentioning the possibility of "a psychological factor" to be met by the invariable response, "But it's only nerves, doctor, isn't it? He's not going mental?" The last word is usually uttered in a whisper. "Going mental"—and yet Shakespeare lived! It's "just nerves," isn't it? And the physician, whatever "it" may be, and whatever he may think about it, may perhaps be forgiven, like Naaman the Syrian, for bowing down in the house of Rimmon and replying, "Yes, of course it is, madam. He's not 'going mental,' it's just nerves." Neither party could define what they mean by either term to save their lives, but "nervous" is respectable, not to say fashionable, while "mental" is sinister and shocking. And there are lots of very splendid things we can do for nerves. I have already mentioned some, and here are a few more: bromide, and holidays, and nice cruises (as if there were any nice cruises), and spas, and golf, and gland treatment, and breakfast in bed, and ultra-violet light, and an afternoon nap, and more bromide, and a different school, and glucose—thank God for glucose!—and ever so many more. And all these are excellent things in their way. Very often they supply the magic for which the patient and the parents crave. What a pity they ignore the central fact of the home situation. You can do wonders with the wet floor if you mop hard enough, but, if you wish for permanent results, it is surely wiser and, may I say, more scientific, to begin by shutting off the burst pipe which is flooding it.

Yes, but how is the practitioner to do this? As I have said, he realises more clearly every year that "the psychological factor" is the all-important one, but he realises also that it needs skill and confidence and experience to apply it safely and effectively, and it very often needs courage amounting almost to foolhardiness to do more than mention it to mother in the most tentative fashion. I have said that unless there is an outstanding disorder of bodily function he is rarely called in until matters have reached a serious state, and it follows that he is really in a cleft stick. If there is a so-called bodily symptom, mother will take a tremendous amount of convincing that psychology is in any way involved; and, if there is not, matters will be allowed to go to incredible lengths, and cause a tremendous amount of misery to all concerned, before she will allow a medical man to have anything to do with her child. Lest the average parent should think this absurd, let me remind you that the thing is, of course, a vicious circle. The parent in whose child these manifestations of maladjustment occur is naturally the parent who tends to be blind to them longest, and to be slowest in appreciating their significance.

I shall return very shortly to the question of what the practitioner can do in the circumstances, but first I must mention something which he sadly often does. He has agreed with mother that they (note the pronoun) are dealing with a case of "just nerves, doctor," so when there is a poor response to treatment, or when further opinion or advice is desired, mother does the obvious thing and suggests that "a nerve specialist" be called in. The physician takes one further and final stride into the temple of Rimmon, and calls in an organic neurologist! It is not pleasant to say what follows, and I shall try to do so without any attempt to apportion blame or responsibility, and as temperately as the facts, as I see them, will allow. I should be false, however, to my sincere convictions if I refrained from stating that the double meaning of the word "nerves" and the use knowingly made of that double meaning by various parties for various reasons, have been the cause of more neglected and misdiagnosed patients, more harmful or futile treatment, more avoidable suffering both to patients and relatives and, in short, more medical tragedies than any other single factor in medicine. As Dr. Bernard Hart insisted long ago, and as every intelligent physician must by now be very well aware, nothing but hopeless confusion can result when one mixes the language of brain cells and nerve fibres with that of thought and conduct. What the distant future may bring is another matter, but, at present, to call in a neurologist just because he *is* a neurologist, and for no other reason, to help an adolescent in psychological difficulty, is an action of which the folly and the tragedy are alike immeasurable. The tragedy is if anything heightened by the fact that organic neurology is probably the most highly skilled specialty in medicine. It is, at the same time, admittedly and obviously the realm in which human personality, both of patient and physician, counts for least. Far from belittling neurological training, I regard it as a most desirable adjunct to the equipment of any medical man, be he practitioner or specialist. I repeat that it is not the training itself to which I object, very far indeed from it. It is the implication that by itself it is a suitable starting-point and adequate background for medico-psychological work, while in fact it is the very reverse, if indeed it can be said to have any relation to psychological medicine at all. Such neologisms as "neuropsychology" are nothing but contradictions in terms.

It is, and will continue to be for many a day, the general practitioner who sees cases of adolescent difficulty oftenest and earliest, and two considerations regarding him seem to me to be of supreme importance. In the first place, the more he learns of the fundamental principles of medical psychology and of the psychological approach and point of view, the more effective will he be. The facilities for obtaining this knowledge and outlook, though they are increasing by leaps and bounds, are still pitifully inadequate and are a disgrace to our system of medical education. Nevertheless, without this knowledge and outlook he is bereft of his strongest therapeutic weapon, he is well-nigh useless to many of his patients, and may be actually dangerous to some of them. Secondly, although he possesses this attitude and outlook, yes, and speaks with the tongues of men and of angels in addition, he may do well with his cases, but will be sadly ineffective with his patients, particularly his adolescent ones, unless he possesses in addition certain qualities of mind and character which training may develop, but can never give.

A picture has just flashed into my mind of a lady who does "a good deal of organising work." I heard

her repeating at the top of her voice: "We must train psychologists. We must train psychologists." She surmounted the only difficulty in the matter that presented itself to her, by announcing that she would train them herself, but regarding what manner of persons they were before they came into her clutches, and still more what they would be like when she had finished with them, there was no word.

Here are a very few examples from my own experience of the kind of thing which the practitioner may expect to meet, and with which he is expected to cope, though I shall have to recount them in the first person. I was consulted by a mother who would not tell her young son what a churchyard was and what gravestones were. She is surprised now that he is afraid of death and the dark, and she cannot understand "how he ever got to know about such things." She wanted him, she told me, "to grow up thinking that life was beautiful." "So it is, madam," I said, "but not if you keep your eyes shut." I have had to deal with a mother who, on finding a silly note written, but not sent, to a good-looking shop-assistant by her daughter of fifteen, who had just returned to boarding-school, went after her to the school, interviewed the headmistress, and had the unfortunate child brought out of bed to that lady's study in a dressing-gown at eleven o'clock at night, to be confronted with her mother and the note, and to learn that, as a particular favour, she was not to be expelled forthwith. The mother was surprised that the daughter grew up into a neurotic womanhood, made an unhappy marriage, and was a serious nervous invalid for some years. I have had to do, of course, with some hundreds of mothers who for various supposed motives, the real motive in every case being their own neurotic attitude to sex, endeavoured with more or less success to keep their daughters ignorant of every single fact concerned with human reproduction. One of these was faced with the result of her wickedness, or folly if you prefer it, when her daughter rushed to her in a state of pitiable nervous collapse and terror at the onset of menstruation. I asked the daughter how the mother dealt with the situation. "Oh," said the girl, "she took my hand and she sat down on the sofa and cried." I have had to do with a mother (a very self-made mother, if you won't misunderstand me) who, in anxiety to preserve her boy from "contamination by life" not only kept him ignorant of all the facts of it, but because she was anxious to make (or to *keep* him, I am not sure which) a "gentleman," never allowed him to exchange a single word with any boy or girl in the somewhat unaristocratic neighbourhood in which she lived. Later on, when the boy went to a good public school, he executed a few crude and rather dirty little obscene drawings on the back of old exercise papers before tearing them up. These were retrieved from the waste-paper basket and handed to the headmaster, from whom they came in due course to me in a sealed envelope, with a request that I should pass an opinion on whether or not they showed what the reverend gentleman described as moral taint. Meanwhile, to be on the safe side, he had ordained that nobody in the school should speak to the boy. I suggested that it might help if I saw the boy, and added fairly tactfully that I saw no particular point in torturing him in the meantime. I have had to do with a little boy whose bed-wetting had been treated by his parents, on the advice of a qualified medical man, by such remorseless beatings that three times during my interview with him he besought me with tears to let him run across to the lavatory next door, lest he should incur another beating by further accident. I have had to do with a mother who, from the best of motives, insisted on accompanying her daughter of twenty, whom she had dominated into a nervous wreck, on the trip to India which the girl had been ordered. She did this, she pointed out, at great personal inconvenience and for the sole purpose of "cementing the links that bound them together." I have had to deal with a married woman of thirty-five whose antagonism to her own mother was so great that they were literally unable to live in the same country without pitiful exhibitions of hysteria on both sides. This lady was in trouble about her defiant, hysterical, wayward and rebellious boy of nine or ten, and she defended, with considerable warmth, her policy of administering corporal punishment to the child, and telling him that if he insisted on behaving like a baby she would treat him like one. She said this was necessary, and I made the only possible answer by pointing out that its necessity was a condemnation of her previous policy. This led us to a discussion of that policy which was such an amazing reproduction of what the lady had endured in her own youth, that she saw it herself and said, "I did my best, but I had only mother as an example." I cannot help wondering whether the best way to help an adolescent might not be to insist, before treating him, on treating his parents for six months.

I could continue this list indefinitely did time permit, but as it is possible to enumerate only a few, I have chosen such instances and put them in such a way as will indicate most clearly where the origin of the trouble lies. Against stupidity, it is said, the gods themselves fight in vain. What, then, are mere mortals to do against stupidity plus neurotic tendency plus the parental instinct gone wrong? Well, we issue pamphlets, and we write booklets, and we organise councils, and we go on to committees, and we give charming little lectures on the "inferiority complex"—we even give Morison Lectures!—and what good do you think it is really likely to do, in the most difficult, the most profound and the most intimately personal of all the applications of medical and mental science? If you will use your imaginations I think you will recognise the people for whom I am pleading. Boys from prep. schools and public schools and council schools, students from universities and medical schools and technical colleges, school-girls and typists and nurses and factory hands. There is something extremely likeable and certainly something infinitely pathetic about most of them. They are so bewildered about it all, almost all of them are frightened, and many camouflage their fear with a rather pitiful bravado. For the most part they are wonderfully trusting, wonderfully obedient to guidance, wonderfully loyal to all concerned, and wonderfully responsive to understanding. A good proportion of them have got brains and endurance and a quite invincible courage, and practically all of them have possibilities of more than ordinarily successful and useful manhood and womanhood; for remember that the potential neurotic is the stuff of which the prophets, priests and kings of humanity are made. Their troubles range in an infinite series, from trivial psychological growing pains to profound bodily, nervous and mental disturbances. It is the practitioner who comes into first and closest touch with them, and I have just been outlining some of his requirements if he is to play his part effectively. The right approach from the right man will of itself do a great deal. Amazing results can be and are achieved by a man whose knowledge of technical psychology may be limited, but who does realise that the best medicine

does not come out of bottles. He must go further than that. He must understand sufficient of the psychological background to perceive the necessity of the "turning" process of which we have spoken, and must realise that, through no fault of his own, the patient rarely has any great wish at the beginning to be turned round, and never desires it with his whole heart. If he did, the problem would never have arisen. The physician must face the question whether the condition before him is a slight and temporary upset—what I have called a psychological growing pain—which will correct itself, given patience, quietness and encouragement, or whether it is a warning signal, indicating the need for something definite and intensive in the way of psychological readjustment. He must realise that to make this decision is one of the most responsible duties that can fall to anyone's lot, and that in many cases the only proper person to undertake it is a trained medical psychologist. *He* must realise that ninety-nine per cent. of these patients have an unhappy home life, whether *they* realise it fully or not, and for the sake of the health and happiness and usefulness of the young people who will so soon be taking our places, he must be man enough to tell the truth as he sees it to the parents. He will often run the risk of mortally offending them in consequence. I suggest, however, that any true physician who has added to his technical skill and psychological knowledge the human understanding, without which they are as sounding brass and a tinkling cymbal, will run that social risk cheerfully. By running it, he may avoid the far graver moral risk of offending, which, being interpreted, means of causing to stumble one of these adolescent ones.

One last word. The greatest psychological asset that any human being can have is, I think, that peculiar and indefinable, but I hope familiar, sense of confidence in his environment, of trust in the whole, queer, big, incomprehensible world into which he has mysteriously come, and from which he will as mysteriously depart. Psychologically speaking, we emerge from the dark at one end of life, only to re-enter it at the other, and the great distinguishing mark, as I believe, of the psychologically well-adjusted individual is the ever-present sense that the dark behind and around and in front of him is somehow friendly. That sense of security, though it may never be clearly felt in consciousness, or directly expressed in words, or fully elaborated into religious faith or anything of the kind, can be a very real thing at every stage of life, but is most perfectly and gloriously seen in healthy adolescence. Here again it would be possible to express its basis, up to a point, in terms of scientific psychology, but the fact of its existence is what really matters. On the one hand we have the adolescent who feels as much at home and confident and unafraid in his world as in his father's house, while on the other we have the timid, hesitating, half-hearted response to life of the adolescent who feels, as so many of us have felt in unfamiliar surroundings, "I was only a stranger, so I didn't dare to touch a thing." These two types were compared and contrasted long ago. The first were spoken of as having the spirit of love and of power and of a sound mind, while the second were of those who, through fear, were all their life-time subject to bondage.

The great Huxley, of all unlikely people, not only wrote in one of his essays of the friendly dark around us, but actually went the length of personifying it. He compared life to a game of chess, and said that opposite to each of us there sits the unseen Player. "We make our move," he says, "and all the time we feel that that mysterious Player wishes us not to fail." A patient, with whom I had once been discussing this matter of the friendly dark, came back and told me that he knew what I meant, but didn't like the name, so I told him about Huxley's chess-player. "That's it," he said, "it's not a friendly dark, it's a kindly light, in which—no, in Whom—there is no darkness at all."

There is no need—no immediate need, that is—for us to go so far in personifying the friendly dark. Indeed, as scientists and psychologists we must do nothing of the sort. The sense of it, nevertheless, remains the peculiar treasure of the adolescent. It is not perhaps too fanciful to say that when we recognise it in him, after we have tried to set his feet upon a rock and to establish his goings, we may regard it as the new song put into his mouth. We need not study the words and music too critically: it is the fact that he is singing that matters. For the song is the proof that psychological equipment is complete, that the problem is solved at last, and that the given young man Alpha has put away childish things and is entering upon life—and life more abundantly.

Panel and Contract Practice

Home Treatment of Air-raid Casualties

It seems useful to set out the arrangements that have been made for the treatment of air-raid casualties among civilians and civil defence volunteers outside hospitals. Minor injuries will, as a rule, be treated at first-aid posts and then at the outpatient departments of hospitals; but some subsequent medical treatment may be necessary which it is inconvenient to provide at a hospital, and its cost will be borne by the Exchequer under the following arrangements. If the patient is insured it will be the duty of his insurance practitioner to give any further treatment which may be required; and an unaccompanied child evacuated under the Government scheme will be treated under the arrangements which have been made. In the case of other persons who do not make their own arrangements, an order for treatment (form E.M.S. 114) will be issued by the hospital last attended, and the doctor giving treatment will be paid a capitation fee. It is proposed to pay these fees direct from the Ministry of Health. Payment will not cover the supply of medicines or dressings; these will be supplied on prescriptions signed by the doctor by any national health insurance chemist. Ordinary N.H.I. prescription forms will be used, but must be marked "War Casualty" at the top. Medical practitioners who are not insurance practitioners will be supplied with forms on application to insurance committees. Chemists will be paid in the same way as for N.H.I. prescriptions, and in country districts where there is no chemist within a convenient distance doctors will supply the necessary drugs and dressings and will be paid direct by the Ministry of Health at Drug Tariff rates. They must therefore indicate exactly what drugs and dressings have been supplied in each case.

The Index and title-page to Vol. II, 1939, which was completed with the issue of Dec. 30, is now ready. A copy will be sent gratis to subscribers on receipt of a post card addressed to the Manager of THE LANCET, 7, Adam Street, Adelphi, W.C.2. Subscribers who have not already indicated their desire to receive indexes regularly as published should do so now.

SPECIAL ARTICLES

FROM PANEL TO PUBLIC SERVICE

By Somerville Hastings, M.S. Lond., F.R.C.S.
CHAIRMAN OF THE HOSPITALS AND MEDICAL SERVICES COMMITTEE, LONDON COUNTY COUNCIL

Some form of state medical service appears to be inevitable in this country fairly soon, and the best way out of the present chaos, due to the outbreak of the war, is by the democratic control of hospitals, medical services, and the profession. The service should be complete—i.e., it should provide not only general practitioners but also specialists, hospitals, convalescent homes, pathologists, dentists, and efficient nursing in hospital and at home. It should aim at prevention as well as cure, and the preventive and curative services should be much more closely associated than they are now. Further, the service would have to be truly democratic and controlled by local authorities and not by a central government from Whitehall. It would certainly be wise for the smaller counties and county boroughs to unite so that the administrated area could be large. There must be elasticity, however, and opportunity to apply different methods to meet special needs. Moreover, advantage must be taken of the assistance and advice of all with medical knowledge and experience in the area. So far most people will agree, but the method of transition is a matter of contention.

It seems clear that the hospital needs of the future will be supplied by the large general hospital, and that the specialists of this hospital will see cases referred to them by general practitioners in the outpatient departments of that hospital and its branches, and that these same specialists will see patients in their homes at the request of the general practitioners. What is not one little bit clear, however, is how we are to pass from the present mixture of panel and private practice to a properly organised general-practitioner service. No doubt, at any rate at first, only those with incomes below £250 will be entitled to the service; but these will constitute about 80 per cent. of the population. Whether the service is to be provided entirely free or paid for in part by insurance need not trouble us at the moment.

The British Medical Association's scheme for providing a general-practitioner service for the whole of the less well-to-do members of the community is hardly worthy of serious consideration, and it is only just to the association as a whole to add that at the last annual meeting in August, 1939, a resolution asking for the consideration of drastic modifications in the scheme was accepted. Much as he would wish otherwise, the doctor under the panel tends to become little more than a tradesman, whose main responsibility is to please his customers, and whose practice and remuneration depend almost entirely on how he succeeds in this and not infrequently on his willingness to sign insurance and incapacity certificates exactly as desired by his patients.

The immediate effect of the extension of the panel proposed by the B.M.A. would be to double the commercial value of every panel practice, or, in other words, immediately to put about £1000 to £2000 in enhanced capital value into the pocket of every panel practitioner. Panel practices are freely bought and sold and fetch good prices. Indeed, many doctors are compelled to buy a panel practice—often with borrowed money—to make a living. Anyone, therefore, with a minimal qualification and the necessary capital, or who can borrow it from a money-lender, can acquire a panel practice and, provided he has a suave and pleasant manner, can retain or even increase it, because the public mostly cannot appraise the true value of the medical services received. To extend the panel to the dependants of the insured, so that the principal medical service for 80 per cent. of the population (paid for to a considerable extent by the state) is provided by appointments sold to the highest bidder, must surely be absolutely impossible in a democratic country. If this is granted, as indeed it must be, some other method of transition from the present mixture of panel and private practice to a salaried general-practitioner service must be found.

SUGGESTED SCHEME

What is to be aimed at eventually is a full-time salaried general-practitioner service, each member of which should be responsible for the health of a certain number of persons, say 2000 in country districts and 2500 in towns. The salary would depend to some extent on length of time in service—i.e., seniority—and might reach a maximum at 50, but there would of necessity be some supervisory posts. There would also be a pension at retiring age, or before if the practitioner is certified unfit. In such a service elasticity is essential if it is to attract the best men. It should be possible for members to become clinical assistants in the special departments (including medicine and surgery) at the hospital and, after the necessary training and experience, heads of such departments. They might also undertake part-time work in hospitals and school clinics, reducing the number of patients on their list accordingly.

There are about sixteen million insured workers, nearly all of whom are on the panel of some doctor. These have about fifteen million dependants. When these last require the services of a general practitioner they usually get it, if they get it at all, from the panel doctor of the father or breadwinner of the family. It is suggested that an offer should be made to every panel practitioner that, if on the appointed day he becomes a member of the new home-doctor service, all his existing panel patients and their dependants should be placed on his list, and that he should be paid a salary which is a fraction of the salary of a whole-time doctor in the home service of the same age, the numerator of which fraction is his list of panel and dependant patients and the denominator 2500 in town and 2000 in country, expressed by the following formula:—

$$\text{Salary} = \frac{\text{panel and dependant patients}}{\text{2500 (2000 in country)}} \times \text{Salary of whole-time doctor of same age}$$

He would also receive on retirement through age or ill health a like proportion of the pension of a full-time doctor in the home service of the same age as himself, although he might only have been a member of the service for a few months. Should any of the patients for whom the state accepts responsibility become tired of their doctor, they could transfer to the list of any other doctor in the home service who has a vacancy. Some of the more senior and much respected members of the home-doctor service would have waiting-lists, but so have some panel practitioners today. Vacancies on the lists of the home doctors would be filled by persons who desire him as their doctor or by others who express no preference; but

the number on each list on the appointed day would not be exceeded. As existing practitioners die or retire their lists, so far as the public service is concerned, would be amalgamated and taken over by full-time doctors. Experience of the sale of practices indicates that about 90 per cent. of these potential patients would accept transfer. The remainder could be added to the list of the doctor they prefer, so far as vacancies permit. It would be as simple to register for medical advice as for bacon and butter.

Certain special classes of potential patients need further consideration. Many people, such as hawkers, cobblers, smallholders, and small shopkeepers, earn less than £250 a year, but are not insured. With dependants they are said to number about four million. They would be asked to register, indicating the doctor of their choice. If he agreed, their names would swell his list of home-service patients. If he refused, they would be added to that of some other part-time or full-time doctor in which vacancies occurred. District medical officers, who are responsible for the care of public-assistance cases, are "senior poor-law officers" and can only be dismissed for some serious neglect of duty. On their death or retirement their patients would be transferred to the home-doctor service.

All the necessary facilities must be provided to assist the doctors in the home service to do the very best for their patients. Pathological, specialist, nursing, and other services must be available, and it must be easy to obtain a second opinion. Machinery must also be provided for the investigation of complaints.

ITS ADVANTAGES

What is the essential difference between appointing part-time home doctors and extending the panel to the dependants of the insured? The difference is clearly fundamental. The part-time home doctor, although he may be selected by his patients, will not be appointed by them. He will be appointed by the local authority. When he dies or retires, no one doctor will have a greater claim to his appointment than any other. The post will be advertised, and the best man who applies will be appointed. In other words, the appointment will be no more saleable than any other civil-service appointment. The important question for the medical profession is whether this scheme would be fair to those who have invested a large sum of money in the purchase of their practices and are trusting that the sum obtainable by their sale later on will provide for their old age. Others have been compelled to borrow money to buy a practice. This they are trying to pay off year by year, and they are hoping that, when the time for retirement comes, the debt will have been repaid and their practice will still be saleable. How will these doctors view the proposed change?

First, there are many advantages that are bound to appeal to the harassed and overworked general practitioner. He will probably live longer to enjoy his retirement, for he will have regular holidays and the certainty of a fixed and secure income if he does his work well. He will also have the satisfaction of being able to do better medical work; for it will be easy to obtain the assistance of his colleagues in all branches of the profession; he will be able to follow up his cases in hospital; and he will have study leave, opportunities of research, and the satisfaction of helping to prevent disease besides patching up the fallen.

The advantages from the financial standpoint are no less real. Most general practitioners are concerned with patients who may be divided from the financial standpoint into three classes: (1) the relatively well-to-do—i.e., those above the panel income limit of National Health Insurance (£250 a year); (2) panel patients; and (3) dependants of those on the panel and persons of a like financial class. Those with an income of more than £250 call for no comment, because they will not be affected, and the value of the practice, so far as they are concerned, will not be influenced in any way. As regards the panel patients, it may be conceded that security of income and absence of any risk through the action of a less scrupulous neighbour who would sign any certificate presented to him will go some way to compensate for the saleable value of the panel part of the practice. Most important, however, is the question of pension. As has already been stated, this will depend not on length of time in the service but on age and will give absolute security both for old age and retirement due to ill-health, a security much more certain and assured than that obtainable by investment or by purchase of an annuity after the sale of a practice. It is generally agreed that the commercial value of that section of a practice that results from the dependants of the insured is not great, for the very good reason that these patients are as a rule only able to pay small fees and in not a few cases no fees at all. Under the scheme adumbrated, for the first time, reasonable fees and a pension would be received on behalf of these people. In this direction, therefore, the practitioner would greatly benefit.

MEDICINE AND THE LAW

Alleged Impersonation of Medical Practitioner

Andrew John Gibson, aged 72, was last week committed for trial at the next Staffordshire assizes on charges of manslaughter of a patient at the Stoke-on-Trent maternity hospital, giving false death certificates, forging death certificates, uttering the forged certificates, and obtaining money by false pretences from the city. The prosecution alleged that he has been impersonating a medical practitioner resident in Sydney named Harry Cecil Rutherford Darling. The accused objected in court to being referred to as Gibson; he said his name was Harry Cecil Rutherford Darling. Alderman Kemp, a chemist, chairman of the city health and hospital committee in September, 1939, gave evidence that the accused told him he was a gynæcologist; the witness knew him as Dr. Darling. Dr. Arthur Hancock, resident medical officer, stated that in October, 1939, Alderman Kemp recommended him a locum tenens and instructed him to write to the accused. He did so and received a reply signed H. C. R. Darling; he handed over his duties at the hospital to the accused on Nov. 23. Cross-examined by the accused, Alderman Kemp said that all the prescriptions he had received from him while acting as locum tenens were in order; they contained nothing to suggest that they were issued by an unqualified man. The manslaughter charge related to the death of a named woman who was brought to the maternity hospital suffering from hæmorrhage. It was alleged that the accused took no active steps to check the bleeding, but asked the advice of the nurse in charge, and, when she suggested a restorative and a saline injection, left her to give the treatment. According to a police witness, the defendant, after his detention, stated that he was not qualified to issue a death certificate; he claimed, however, to have the necessary skill and knowledge. The case being now *sub judice*, comment must be reserved until the result of the trial at assizes is known.

MEDICAL RESEARCH COUNCIL

REPORT FOR 1938–39 [1]

WITH the outbreak of war there is a danger that the fruits of peace-time research may be lost through a diversion of the investigators' interest to war-time subjects. Of this risk the Medical Research Council is acutely aware, at the same time recognising that knowledge gained through war can usually be applied to peace-time research, as shown by the great scientific advances made during 1914–18, which are summarised in the introduction to their report. Meanwhile the opposite process—the application of peace-time discoveries to the present war—is under way, especially as regards the prophylaxis and treatment of shock, infected wounds, pneumonia, and gonorrhœa.

WAR-EMERGENCY SERVICES

As was foreshadowed in the last report,[2] the council undertook the preparation of stores of antitoxins, notably tetanus antitoxin and gas-gangrene antitoxin, to be held in readiness for war, and the production of further supplies after the outbreak of war. A reserve stock of various vaccines and sera was also accumulated; arrangements were made for speeding up the production of important drugs previously obtainable only from abroad; and a register was compiled of pathologists and bacteriologists suitably qualified to fill emergency posts.

Public-health laboratories.—The chief extraordinary task entrusted to the council was the organisation of an emergency laboratory service to augment the existing public-health laboratories in the fight against expected epidemics and to be controlled directly by the council. After the declaration of war three central and sixteen subsidiary laboratories were set up in England and Wales. Ten other laboratories on the outskirts of London were included in the emergency hospital service for that area, and six laboratories in English universities were associated with the scheme. Similar arrangements were made by the Department of Health for Scotland in consultation with the council.

Supply of blood for transfusion.—Four depôts have been organised in the home counties for the collection, storage, and supply of blood for transfusion not only in their immediate areas but also to aid the London hospitals. The council has further assisted in coördinating such work in the London hospitals and has provided the necessary apparatus. Blood from some of the depôts has already been furnished to the Army. Keeping these depôts always in readiness has meant that much of the blood, at the end of its period of storage, has not been needed for transfusion. This surplus blood has not been wasted but has been used in the prophylaxis of measles, especially among juvenile evacuees.

Army rations.—At the request of the War Office the council has arranged for the investigation of Army rations by their staff at Cambridge and the Lister Institute, and similar research has been extended, at the request of the Department of Scientific and Industrial Research, to the question of the preservation of food during transport and storage.

Industry.—Through its Industrial Health Research Board the council is also advising the Government in accelerating the production of munitions, in the selection of personnel for special posts in industry and in the services, and in the new problems of lighting, heating and ventilation in the blackout.

PREVENTIVE MEDICINE

To hasten the adoption of new methods in preventive medicine, which once more is contrasted with the rapid adoption of new cures, a committee on preventive medicine has been appointed under the chairmanship of Sir Wilson Jameson, and a beginning has been made by tackling cross-infection in hospital wards, infective enteritis and diarrhœa in children, and active and passive immunisation against tetanus, measles and diphtheria.

CHEMISTRY OF THE BRAIN

Glucose.—Emphasis is laid on the key position of glucose as the main fuel of nervous tissue and on the part played by vitamin B_1 in controlling the oxidation of glucose by the cerebral cells. An insufficiency of this vitamin leads to an accumulation of an intermediate product of oxidation—pyruvic acid. Hence the amount of pyruvic acid in the blood indicates the degree of deficiency of vitamin B_1. Even when oxygen, glucose and the vitamins are sufficient, various narcotics and anæsthetics can diminish or suppress the oxidation of glucose.

Acetylcholine has been isolated from the brain by Mr. E. Stedman, F.R.S. in Edinburgh; this suggests that the substance is essential to the transmission of excitation in the brain, even as it is in ganglia and most of the peripheral nerve-endings. Mr. J. H. Quastel, D.Sc., and his colleagues in Cardiff have found that acetylcholine can be formed by brain tissue in vitro only in the presence of glucose or certain of its metabolic products, such as lactate or pyruvate, and with a free supply of oxygen. Mr. F. C. MacIntosh, Ph.D., at the National Institute, showed that peripheral ganglia exhausted of acetylcholine can regenerate it only when glucose or one of its possible metabolic products is supplied. Dr. Quastel has also shown that acetylcholine is present in two forms in brain tissue—free and combined—the equilibrium between the two forms being controlled by chemical substances. Thus, liberation of acetylcholine is helped by increased concentration of potassium salts (cf. the cure of familial periodic paralysis by administration of potassium salts). Dr. MacIntosh and Dr. A. M. Harvey have shown that acetylcholine is not liberated in the absence of calcium ions.

BREATHING MACHINES

A separate report has been issued[3] as the result of investigations made by a special committee, under the chairmanship of Prof. L. J. Witts, of the advantages and disadvantages of many types of apparatus devised to stimulate respiration. It is recommended that patients in need of these machines should be concentrated in the smallest possible number of hospitals.

ARTIFICIAL INDUCTION OF FERTILITY

Mr. A. S. Parkes, F.R.S., at the National Institute, injected pituitary extracts from the horse into rabbits and produced thereby so many ripe follicles that in one case mating was followed by pregnancy with forty embryos. In collaboration with him Mr. J. Hammond, F.R.S., at the Animal Nutrition Institute in Cambridge, experimented in the same way with sheep, and on one occasion five fœtuses were found when the ewe was killed in the third month of pregnancy. By a similar treatment pregnancy has been induced in sheep during anœstrus, and an interesting relation of dosage to

1. H.M. Stationery Office. Cmd. 6163. 1940. Pp. 162. 3s.
2. See *Lancet*, 1939, 1, 526.
3. See *Lancet*, Feb. 17, 1940, p. 320.

results has come to light: with a small dose all of a few ripened follicles may ovulate, whereas with a large dose perhaps only one in ten may do so. In other words, ovulation is not due to the exogenous but to an endogenous hormone brought into action by the changes effected in the ovary by the exogenous hormone. The practical application of these experiments is the possible production of three instead of two "crops" of lambs in eighteen months and an increase in the number of offspring of each ewe.

VIRUS DISEASES

Influenza.—An outbreak of influenza in the early months of 1939 was studied by Dr. C. H. Stuart-Harris at the National Institute. The known virus seems to have played a subordinate part; in fact it was several weeks before the virus could be found in connexion with this outbreak. The symptoms were very varied and the virus could not be related to any definite clinical picture. Experiments were also made with prophylactic vaccine.[4]

Lymphocytic choriomeningitis.—Mr. W. J. Elford, Ph.D., by ultra-filtration and differential centrifugation, has measured the diameters of the infecting units of lymphocytic choriomeningitis and found them to average 46–50 mμ.

BIOLOGICAL STANDARDS

Three new standards have been made at the National Institute and adopted during the year: an international standard for "chorionic gonadotrophin" (the gonadotrophic substance extracted from human urine of pregnancy) and British standards for an antitoxin against the "histolyticus" toxin of gas-gangrene and for diphtheria antitoxin. A standard is being prepared for the purified protein derivative from tuberculin.

Methods of biological assay and measurement are being developed for tetanus toxoid, tetanus antitoxin, gas-gangrene antitoxin (perfringens), staphylococcus antitoxin, vitamins A and E, insulin and sex hormones.

TROPICAL MEDICINE

Trypanosomiasis.—In Tanganyika Dr. F. Hawking has investigated the trypanocidal activity produced in the blood-plasma by the intravenous injection of tryparsamide and has found it to be approximately equal to that produced by the drug in the cerebrospinal fluid. He has also grown trypanosomes in the blood of patients who had recently recovered from sleeping sickness, without finding any evidence of trypanocidal antibodies.

Filariasis.—The same investigator has unsuccessfully tried to discover, by transfusing microfilariæ into uninfected subjects, in what organs microfilariæ are destroyed.

Yaws.—In Uganda Dr. C. J. Hackett has re-examined more than two-thirds of the 350 patients with yaws observed during the previous year. Different types of lesions of the bones were found associated with the different stages of the disease. The reaction of the bones appeared to depend on the age of the patient, producing periosteal deposition in children and focal rarefaction in adults. Sabre tibiæ appear to be the end-result of more than one antecedent condition.

4. See *Lancet*, Feb. 3, 1940, p. 205.

SCOTLAND

(FROM OUR OWN CORRESPONDENT)

THE WINTER EPIDEMIC

DURING the past few winters there have been minor epidemics in Scotland of what has, often too loosely, been called influenza, but this year Edinburgh and the south-east of Scotland have been more hardly hit. The staffs of business houses, schools, the university, the hospitals, indeed all branches of activity have been interfered with by an epidemic with a high incidence of tracheitis, laryngitis and bronchitis. Many practitioners, already overworked because of the absence of their colleagues on service, have been inundated. Some have had to pay anything up to 75 or 100 visits a day for several weeks in addition to crowded surgery hours. Many whole families have been confined to bed. Old people have been particularly affected and the mortality from respiratory infections has risen sharply. The chemists describe the demands for cough mixtures as "positively phenomenal." In Edinburgh the outpatient dispensaries and the outpatient departments of the hospitals have had a succession of voiceless patients, while coughing has reverberated through all public places. In Glasgow the recent fuel shortage may have aggravated the outbreak.

ORTHOPÆDIC UNIT IN GLASGOW

The Nuffield Trustees have set aside £20,000 to assist the establishment of an orthopædic unit at Philipshill, the auxiliary hospital of the Victoria Infirmary, Glasgow. Some months ago the trustees informed the governors of the Victoria Infirmary that Lord Nuffield had given some money for the development of orthopædic hospital and clinic schemes in Scotland, and they asked for the Infirmary's views as to how this aim could be furthered. The new orthopædic unit will operate in conjunction with the fracture clinic of the Infirmary, which has been completed this year at the expense of Lord Weir, and will serve Glasgow and the south-west of Scotland. The Department of Health for Scotland also intimated that it was anxious to lease ground and to erect wards at Philipshill for the treatment of air-raid casualties. The two schemes have now been merged into one. The Department of Health have agreed to build four wards containing 60 beds each for the treatment of war casualties. When these are no longer required for the purpose they may be rented by the Infirmary. The grant from the Nuffield trustees will pay for the additional accommodation for nurses and domestic staff and the other ancillary buildings of an orthopædic unit.

FRANCE

(FROM OUR OWN CORRESPONDENT)

VENEREAL DISEASE LEGISLATION

A DECREE-LAW dated Nov. 29, 1939, tightens up the control of infectious cases of venereal diseases and slackens the bonds of professional secrecy hitherto valid not only by tradition but also by law. Every doctor who finds that a patient is exposing others to infection is authorised to notify the sanitary authorities, but he cannot be forced to give evidence in such a case. Terms of imprisonment and fines are laid down for any woman who, knowing that she is syphilitic, gives breast to children other than her own; any person who knowingly allows a syphilitic infant in his or her charge to be breast-fed by any other person than the mother without having disclosed the truth; and any wet-nurse who does not possess a

medical certificate that she is not syphilitic. The sale of drugs for the treatment of venereal disease other than those approved by the authorities is forbidden, and only approved laboratories may undertake serological examinations for the diagnosis of syphilis. The comments in the French medical press on this decree-law are mixed; while many of its articles are greeted with approval, the tendency to infringe the doctor's liberty of action and professional secrecy is deplored.

HONOUR FOR PROFESSOR JEANNENEY

The Laborie prize has been awarded to Professor Jeanneney for his work on the conservation of blood for transfusion. For many years he and his collaborators have been working on this subject at the Tastet-Girard Hospital in Bordeaux, and they have devised a process which enables blood to be conveyed great distances without appreciable deterioration.

THE LATE PROFESSOR AUGUSTE PETTIT

Auguste Pettit, who died towards the end of 1939, was an authority on various aspects of physiology, bacteriology and pathology, and was attached to the Pasteur Institute in Paris. He made important contributions to endocrinology and to the serological aspects of poliomyelitis. He had been secretary-general of the Société de Biologie since 1909, and a member of the French Academy of Medicine since 1925.

USE OF THE RED CROSS RESTRICTED

On Sept. 10 the Government issued an order pointing out that the use of the Red Cross emblem was reserved for the army medical service and for officials of the French Red Cross. But the open-sesame effect of this emblem is so potent that the temptation to use it is great, particularly for doctors who do not hold any official position within the Red Cross, but do much useful work for it. Surely, they say, these unpaid services might be rewarded by the right to carry the emblem. Failing which, cannot some other emblem be devised to indicate the doctor's motor-car and to soften the hearts of stern privates on sentry duty? It is doubtful if they would pay much respect to the sign of a serpent wriggling up a pole.

GERMANY

(FROM A NEUTRAL CORRESPONDENT)

BRAIN LESIONS IN THE POLISH CAMPAIGN

ACCORDING to Prof. W. Tönnis,[1] the German invasion of Poland proceeded so fast that there was no chance for detailed operative treatment of wounds of the brain in the field. There was, therefore, no opportunity for confirming the impression gained during the last war that the ideal is operation on the spot. In Poland many brain casualties ended in phlegmonous lesions and encephalitis with abscess formation, and the few who escaped with their lives were those who could be promptly transported to special departments in home hospitals. Transport by air was found to be the most merciful and speedy, and this was the method of evacuation for 52 brain and spinal-cord casualties which reached neurosurgical hospitals in Breslau and Berlin in only four to five hours. In these hospitals it was found that the cases which had been tampered with surgically near the front fared much worse than those which had been left to themselves. All the cases which had been provisionally operated on for tangential wounds of the brain showed prolapse, with splinters of bone in the depths of the brain. The prolapse was reduced by repeated lumbar puncture. Under local anæsthesia the opening in the skull was then enlarged, the depths of the wound freed from dead matter and any remaining splinters of bone exposed and withdrawn. The wound was kept open by a Mikulicz tampon, soaked in Prontosil, to assure the free escape of discharge. It was noticed in the wounds which had not been tampered with at the front that prolapse of the brain had been hindered by the splinters of skull left in place. Professor Tönnis is in favour of repeated lumbar puncture in the treatment and supervision of such cases, but considers the extraction of foreign bodies with a magnet as irrational and harmful.

1. *Dtsch. med. Wschr.* Jan. 19, 1940, p. 57.

CONSERVATISM IN OBSTETRICS AND GYNÆCOLOGY

Prof. C. J. Gauss, of Würzburg, advocates[2] what he calls biological therapy in gynæcology and obstetrics. He includes radiological treatment under this term but not the knife; and his relegation of operative treatment to a lower seat at table is justified by a considerable wealth of figures. He maintains that less than one in ten of cases of myoma of the uterus and the other metropathies require operation, while over eighty per cent. can be helped by radiotherapy. During the past fifteen years he has abandoned the operative treatment of carcinoma of the uterus in favour of combined Röntgen-radium treatment, but he has not yet dispensed with operative treatment for tumours of the ovary, though he always supplements it with radiotherapy. With this combination he can claim a recovery-rate of 27·5 per cent. after an interval of five years for his cases of malignant disease of the ovary. Professor Gauss disapproves of "local tinkering" in cases of gonorrhœa and recommends fever treatment with malarial infection. His condemnation of Cæsarean section reflects his opinion that it is a hindrance to the large family.

FOREIGN STUDENTS.—NECROLOGY

There are still over 1900 foreign students attending German colleges in different parts of the country. The Bulgarians head this list with 532 students.

The following deaths are announced: On Jan. 12 Dr. Werner Spalteholz, former professor of anatomy at Leipzig, aged 79; Dr. Ernst v. Schoen-Wildenegg, founder of the Hamburg Tropical Institute, aged 76; at Tübingen from Malta fever, Prof. Eberhard Gmelin, formerly surgeon-in-charge of the German Diakonissen Hospital in Jerusalem.

2. *Ibid*, Jan. 5 and 12.

MEDICAL SERVICES IN FINLAND.—The popularity of medicine as a profession in Finland—1338 doctors in 1938 compared with 72 in 1840—is such that the total number of new medical students has had to be limited to 800. About a third of the doctors practise at Helsinki. The state medical service controls about 850 appointments, including military posts. All the hospitals—until a hundred years ago there were only leper houses—belong to the state. There are twenty mental hospitals maintained by the provinces and supported by the state. Tuberculosis sanatoria began with two private institutions in 1900; today 5000 beds are available, some of the sanatoria belonging to the state and others to various societies. Medical education in Finland takes ten years, of which the last five are allocated to clinical study, but a senior student is allowed to act as a locum tenens in a country district. Postgraduate courses were instituted in 1930 by the Finnish Medical Association, but presumably such luxuries have now gone by the board.

IN ENGLAND NOW

A running commentary from our Peripatetic Correspondents

It is supposed to be one of the simple pleasures of life to watch things grow. Sometimes, as with turnips or the lilies of the field, growth is an effortless, placid process, sometimes, as with hospitals, one of considerable turbulence. The birth and growing pains are real enough, but there are compensations. Our hospital is in the heart of the country, fifty miles from each of three large cities, housed in a mansion now but an anæmic shadow of its pre-war splendour. The geographical situation is happy—not too far from the cities it is primarily designed to serve yet presumably reasonably safe, surrounded by hills and valleys, bleak perhaps among January snows, but not without charm even in winter and holding promise of glorious sunlit hills and moors as the days lengthen. The house itself is a modern four-storied building with large public rooms on the ground floor, and a first cursory glance suggested that its conversion into a reasonably efficient hospital ought not to be difficult, but these cursory glances are apt to be illusory and many paper problems had to be solved before the eventual shape of the place could be as much as visualised.

To the layman there is a great temptation to think of a hospital as a collection of beds. Staff requirements are invariably underestimated on a too-easy assumption that so-and-so can live out. It is forgotten that the expression "staff" covers a multitude of sins—medical, nursing, technicians, clerical, domestic—each with its own hierarchy, each expecting some little measure of amenity as well as mere dormitory accommodation. There is a tendency to dismiss such considerations as inapplicable to the conditions of the times; the theory is that in an emergency all should rough it, especially in a "temporary" hospital—a generalisation invested with an odour of sanctity and dear to the official mind, but very easily overdone. This is the same kind of complacent generalisation as springs from the fundamental fallacy that if the emergency is great enough six hundred bedsteads will make a hospital and a few odds and ends an efficient operating service. It is often forgotten that patients, too, need more than beds—recreation-rooms, however simple, and a dining-room for convalescents conveniently near the kitchen, if only to simplify the running of the hospital. Available water, drainage, lighting, heating and cooking resources have to be weighed against new demands. Suitable theatre rooms have to be found as have X-ray and developing rooms, laboratories, dispensary, splint-room, linen cupboards innumerable, and, even in such an excellent hospital as ours, a mortuary. Sluices and sanitary fittings have to be installed, administrative arrangements for the reception of patients planned, an unbelievable amount of office accommodation found and the whole place efficiently blacked-out, in itself no mean task.

While the layout of the hospital was under consideration, the taking of an inventory of everything in the house was also proceeding, a soul-destroying, time-consuming business. Decisions had to be made of furniture to be taken over, that to be retained valued and the remainder stored at some sacrifice of potential bed-space. Existing floor coverings had to be considered in the light of cost and replacement, carpets to be stored, yards of linoleum laid, other floors stained. Such furniture as was taken over had to be redistributed and delivery taken of the new equipment that began to dribble into the building, long-heralded by floods of advice notes.

Few things can be more conducive to delusions of grandeur than the arrival of crate after crate of hospital supplies. What in bulk appears to be sufficient to equip a small town proves on investigation to be painfully inadequate to much humbler needs. Mountainous bales contain but a few mattresses. A formidable parcel contains litters of straw and one measuring jar. Here is a consignment of prehistoric bed-pans, there a box containing in its hollow mockery three hundred hand-bells. Surgical instruments arrive in curious motley; this must be a golden age for surgical instrument makers. Sterilisers absent, ditto gloves; cups and saucers but no tea-pots; robust plates and saucers to deputise for cruets; Thomas splints, some unpadded, others thinly veiled; scarcely a vestige of laboratory equipment. With the approach of the official opening date the gaps seem to become bigger and more alarming, but much can be accomplished by a spirit of optimism and a tongue not afraid to make representation in plain unvarnished English; our masters know us by all kinds of uncomplimentary names.

* * *

Ours was one of the first base hospitals to come into service, and its staffing did not present great difficulty, except perhaps on the domestic side. For senior consultants (visiting once or twice weekly) we drew on the cities. Senior surgeons were seconded from teaching hospitals. Each has a junior of clinical tutor status and there are three house-officers, the senior possessed of a fellowship with anæsthetics as his special subject. Matron we borrowed from a large teaching hospital where she was second in command; the assistant matron was her assistant in the same hospital. The trained nurses were recruited chiefly from the Civil Nursing Reserve; all were appointed as nurses in the first instance and sisters were selected on merit after a month's probation during the days of equipment of the hospital. The staff contained a higher proportion of trained nurses than is generally possible in hospitals of the kind, partly with a view to training personnel for other hospitals; the trained element was supplemented by V.A.D.'s and nursing auxiliaries. We had the usual difficulty in securing domestic staff; a difficulty exaggerated by the circumstances that the hospital is in the country, far from the flesh pots. All sorts of possible sources of supply were tapped—unemployment exchanges, servants' registries, women's voluntary services, headmistresses of schools, local canvass, and it seems likely that life will resolve itself into one long quest for maids. Experienced hospital stewards are priceless above rubies. It is not that there is any lack of candidates possessed of all kinds of possible and impossible qualifications. One elderly applicant based his claim on the fact that he had looked after the county register of voters for thirty years and was thoroughly conversant with the relative acts of Parliament. He was glad to state that he had never seen the inside of a hospital and by the grace of God he never would. He had no experience of hospital—or any other—stewarding, but he was willing to learn and it did not seem to occur to him that the learning process might be associated with a good deal of heartburn for everyone concerned. It is imperative that, in the early days particularly, the stewarding of a hospital should be in capable and experienced hands, and we were fortunate in being able to lure from his retirement a very efficient man who saw us launched on the straight and narrow path. The remainder of the resident staff comprised a finance officer ("money-

bags"), chief clerk, telephonist, radiographer, dispenser and a trinity of lady cooks, the senior experienced in hospital cookery, the juniors ("The Twins"), fresh—very fresh—from one of the seminaries professing to produce ladies trained in institutional and (other!) high-grade cookery. Also on the strength was Bobby, a long-haired black-and-tan dachshund puppy of four months standing and rather uncertain manners; a likeable little fellow with a shoogly gait; to whom the world's worst punishment was solitude.

* * *

The hospital was primarily intended for the reception of air-raid casualties, but in view of the course of the war it was decided to admit a certain number of military sick, including Fannies, as we disrespectfully dubbed the Auxiliary Territorial Service, and we were told to be ready to admit our first batch of "light sick" (up to 100) on Jan. 15. There was, of course, the usual last-minute rush, even worse than the rush of the preceding six weeks, but on the appointed day we were reasonably ready, except that our dressing steriliser had failed to put in an appearance, as had necessary X-ray accessories, though the machines themselves were present and correct. The 15th passed without the arrival of patients as did the 16th, 17th and 18th, by which time the hospital staff were suffering from a sense of anti-climax, a kind of patient hunger; more especially the surgeons, who wandered round furtively in search of blood and/or pus, much like cats in quest of fish and making very similar noises. Then suddenly manna arrived from an unexpected quarter. One of our maids was deemed to be suffering from appendicitis. The local cottage hospital kindly sterilised some dressings and lent some gloves and our first operation was successfully performed in these borrowed plumes, though the surgeon had the grace to say that the erring appendix blushed when it saw him.

These days of waiting were in some ways the most trying of all, though there was still much to be done by way of preparation and the weather continued to be ideal for winter sports. Another maid fell ill, this time with acute rheumatism; then on the 24th our first real patient was admitted—a young soldier with bilateral pneumonia. He was received with appropriate honours and his treatment put in hand, for he was sharply ill; incidentally, he took very kindly to the B.L.B. mask and was soon keeping a watchful eye on his intake of oxygen, or, as he had it, H_2O. The first few cases to reach us were medical, mostly labelled pleurisy, and the surgeons became more and more despondent until at last things began to come their way—hernias, hydroceles, fractures, some of them second-hand, but beggars cannot be choosers. Curiously enough, two of our earlier patients were R.A.M.C. officers, one with influenza, the other with a fractured tibia: doctors do not, as a rule, make the best patients and Army doctors are no exception to this generalisation. It is one of the consequences of treating soldiers billeted in none too good surroundings that patients have to be kept in hospital until they are fit to return to their war stations, unless it is possible to arrange for them to spend their convalescence in an auxiliary private-house hospital, and these are usually busy with their own light sick.

A hospital of this type, situated many miles from any considerable town, must largely provide its own entertainment. There is a picture house in the village two miles away and a golf course near at hand; the hospital itself boasts tennis courts, putting and bowling greens, a gymnasium and an indoor swimming pool. There are four staff dining-rooms, one for doctors, one for senior nursing staff, one for nurses and one for non-medical administrative personnel; but it is in the common-rooms that the main corporate life of the hospital has its setting. Wireless, darts, ping-pong and a permanent and all-pervading spirit of leg-pull; good-humoured baiting of the physicians by the surgeons and of the surgeons by the physicians. Fortunately we seem to fit together well as a team and the days pass very pleasantly. Our visitors make a mixed bag—political dignitaries, consultants, administrative colleagues, parsons, miscellaneous brass-hats. We bow politely to them all and sometimes extract a little entertainment from the doing of it. We have inaugurated a monthly medical at-home to which we invite R.A.M.C. personnel within a radius of fifty miles or so. The programme at these meetings consists of a short paper by a member of the staff opening a discussion, tea and a ward visit. Between each of these open meetings, we have a staff meeting for clinical discussion. What the future may hold in store we cannot tell; it may even be that if things go badly we shall have to teach medical students. Sometimes in our braver moments we try to persuade ourselves that we are ready for anything.

* * *

Quite a number of men have enlisted after rows with their wives. One complicated matters by going off on his way back home, after medical examination, getting drunk, and doing something silly with somebody's luggage at a railway station. He found his way into the lock-up where he spent a Saturday night, but the police were very nice about it on Sunday. They let him go on his promise to turn up at the police court on Monday morning, which he did. The magistrates were equally nice about it. He was sent off to his depôt, where, if the medical people do not discover the underlying state of his health, he is likely to develop into quite a good little soldier. The odd thing about it was that his wife did not seem to mind his having enlisted, but she cried her eyes out when she heard that he had got into trouble—and that only very small, quite silly trouble—with the police.

The Lancet 100 Years Ago

Feb. 22, 1840, p. 796.

From a letter on the restraint of lunatics from Dr. Robert Gardiner Hill, of the Lunatic Asylum, Lincoln.

A keeper is insulted, perhaps only verbally so; the patient, instead of being soothed, is threatened, and the insult is repeated; a strait-waistcoat is brought, a struggle ensues, another keeper arrives, and in the attempt to put on the jacket the patient gets very roughly used. He resists, swears, kicks, and bites; the keeper or keepers kneel upon his body, thrust their knuckles into his throat, beat him and bruise him, until they succeed in overcoming him. Then the jacket is tied so tightly that he can scarcely breathe; his legs are fastened together, either with iron or leathern hobbles; and, to sum up all, if he have resisted stoutly, he is chained to a wall in a small dark room, and the door is closed upon him. . . . How long he remains so is now a problem. The keeper thinks it would be dangerous to liberate him; this is sufficient; his fate is sealed.

Such is a faithful picture of what has frequently occurred and must occur, under the system of restraint . . . non-restraint is practicable, for we have proved it by an experience of nearly four years. It is humane, as all must acknowledge. It contributes to the comfort, the cheerfulness, and the recovery of the insane. It is safe, for no accident has occurred under it with constant *surveillance*. It soothes the patient, keeps his angry and revengeful passions at rest, gives him the power to assist himself, and thereby prevents his falling into habits of hopeless filth and misery; and I venture to pronounce of it, that it is the system which must and will ultimately prevail in every asylum in our land.

PARLIAMENT

ON THE FLOOR OF THE HOUSE

By MEDICUS, M.P.

THE temperature of the House of Commons is rising. A question by a barrister M.P. asking whether an organisation "enabling volunteers to go to Finland would be prosecuted as an offence against the Foreign Enlistment Act" brought a Government reply according British subjects a general licence to enlist with the Finnish forces. The question was a late one on the paper and was not reached in time for an oral answer to be given, or there might have been fireworks. The barrister concerned is associated with the National Council for the Defence of Civil Liberties, which added a piquant touch to his question. A bright interchange of supplementaries appears to have been anticipated. The Soviet Ambassador was in the gallery and a number of members of the Communist party in the lobby. One of these members was Mr. Ivan Montagu, brother of Lord Swaythling, who has been refused an exit permit to go to Russia as a representative of the *Daily Worker*. Supplementary questions from a labour and an I.L.P. member asked "whether this gentleman could correctly be described as a friendly Englishman?" It is to be hoped that the temperature will not rise too high, but some rise is certain to come—few men or women, for instance, did not feel their hearts beat quicker when the news of the rescue of prisoners from the *Altmark* came over the wireless. But volunteers for Finland, difficulties with Norwegian and perhaps Swedish neutrality, and the ruthless war waged by Germany on neutral shipping all have possibilities within them of unexpected events. And in another field, the Near East, Australian, Indian and New Zealand troops have taken up position, so that one asks whether they are there in view of possible eventualities in the spring.

* * *

At home we are more ready than ever before and the Government's announcement of its present evacuation policy as regards children gives the outline of the last schemes of preparedness. The new plan is (1) to keep the 400,000 or so evacuated school-children already there in the reception areas, to which must be added 20,200 mothers and 36,400 children below school age; and (2) to offer evacuation to children at present in the vulnerable areas if bombing attacks develop. The details are not worked out. In addition to the school-children and others removed from the cities under the Government official evacuation plan there are large numbers of civil servants, privately evacuated people, private schools and university colleges and other groups which add substantially to the total figure. The Government's new proposals apply only to school-children and will be voluntary, but parents will "be required to sign an undertaking that they will send their children away when evacuation is ordered, and a statement that they will leave them in the reception areas until the school parties return." The fact that Her Majesty the Queen is sending to all householders who sheltered children in the reception areas a personal message in recognition of their services shows that evacuation is firmly established as a part of our national defence measures. The announcement must also be taken in conjunction with that of the opening of about twenty school camps which will take schools as units.

In opening the new chapter of evacuation policy Mr. Walter Elliot took occasion to give the names of a new "Advisory Committee on the Evacuation of School-children." The members are 15 in number and include the secretary of the Association of Education Committees (Sir Percival Sharp), the secretary of the N.U.T., Sir Frederick Mander, education officers and town clerks and the chief education officer of the London County Council, but only two women—Mrs. Parker, ex-president of the N.U.T. and Miss Catnach, headmistress of the County School at Putney. There is no welfare worker or school medical officer on the committee. It is to be hoped that in the new chapter the difficulties which made such good headlines in the daily press will be solved in advance. For as Mr. Elliot says, "there is time"—but perhaps only just time.

* * *

A sign of increased activity in the House is the number of amendments put down to bills which are passing through and the increased length of the sessions. On Tuesday Feb. 13 there was a division on the Government's railway proposals and the House adjourned at 10.27 P.M. On Wednesday there were six divisions on the Agriculture Bill, some first-class speeches by Mr. Lloyd George and others and adjournment at 11.32 P.M. On Thursday there were two more agricultural divisions, and *Hansard* gave up the detailed report at about 11.5 P.M. and refers the inquirers to the future report to be made of the sitting on Feb. 20.

Parliamentary institutions are not only surviving the war, they are increasing their efficiency in the war—and to some extent their prolixity. Tuesday Feb. 20 and Wednesday Feb. 21 are set aside for a debate on the Government's old-age pensions proposals and the Labour Party amendment which "notes with approval that the Government have in response to public pressure" at last "agreed to lower the pensionable age for a number of women," but "strongly condemns the proposal for supplementary pensions based upon a household means test." There is a tendency for means tests to spread in modern legislation, and the Labour Party, while willing to consider an individual income test, is strongly opposed to a "household" test, which reduces household standards to a level of insufficiency by lumping all household income together.

Family Allowances

War conditions have brought the question of family allowances—that is, allowances for children in addition to wages—much into the forefront of discussion as a practical proposition. On Thursday last week an all-party meeting of members assembled in a committee room under the chairmanship of Sir Patrick Harrison to hear Mr. L. S. Amery put family allowances forward as a way of maintaining proper standards of nutrition and at the same time of avoiding the spiral chase of wages after prices and prices after wages which was so much in evidence during the war of 1914–18.[1] Mr. Amery advocated the plan primarily as a way of helping the large family, for he has been concerned for a long time with the low birth-rate, our rate now being lower than that of France. Sir Patrick Harrison as a good Conservative and good Catholic emphasised the same point of view. Mr. Amery stated that the question had last been examined by the T.U.C. about ten years ago and he was not quite sure what the result had been except that

1. A detailed presentation of the case has been prepared by Miss Eleanor F. Rathbone, M.P., on behalf of the Family Endowment Society. It is obtainable from the Society at 27, Marsham Street, S.W.1., price 6*d*. post free.

it was not favourable, but he now suggested a reconsideration by all bodies and the formation of an all-party committee to approach the Government.

A plan of family allowances has been put into operation in France—strongly supported by the socialists under M. Leon Blum—and also in Italy and to some extent in Germany. The size of the problem is important, but Mr. Amery said it is not too big to tackle, for 90 per cent. of the workers have only one child and only 9 per cent. a larger number. There was some discussion on the Labour Party and T.U.C. attitude, and Mr. Isaacs for the Labour Party, as a trade-union official of many years standing, declared himself willing to consider the proposal benevolently. Dr. Summerskill declared in favour of family allowances sans phrase. Mr. George Buchanan was also favourable. Mr. Creech Jones thought that the allowances would tend to depress wages, but Miss Rathbone was emphatic that they had not depressed the basic wage in France and she said that the rise in wages of coal miners in France during recent years was proportionately greater than in Great Britain. Sir Francis Fremantle was in favour as a means of arresting the decline of the family and the shrinkage of the population.

There was not much detailed discussion of the exact method of carrying out the policy of family allowances by legislation in the House, but it was felt generally that the giving of an allowance for all children was not necessary, since a family might normally be assumed to contain one or two children for which the normal wage should suffice. The finance of the scheme would be based on the insurance principle of weekly payments from employer, employed and Government, and the allowances would be paid from birth up to fifteen years of age. The rate of allowance would be 3s. or 5s. per child, but the sense of the meeting was in favour of 5s., and a scheme starting with second children would cost the state about 10 million pounds per annum for England and Wales. An interesting suggestion was made to the effect that family allowances of large-scale application may form part of a plan for dealing with wages, prices and cost of living to be presented shortly by Mr. J. M. Keynes. Clearly things are moving towards the proposal of allowances, and the House of Commons meeting left future arrangements with regard to meetings or a deputation to the Government to Mr. L. S. Amery, Sir Patrick Harrison and Commander Wright. The Labour members present undertook to make inquiries as to how the Labour Party and T.U.C. would receive a proposal for joint action.

QUESTION TIME

Influenza

Captain PLUGGE asked the Minister of Health if he could state the number of cases of influenza and their severity reported up to the present.—Mr. ELLIOT replied: The number of cases of influenza is not exactly known because the disease is not notifiable, but the number of deaths ascribed to influenza in the great towns in England and Wales (which include over half the total population) give some indication of the prevalence of the disease. The numbers of such deaths reported in the period of six weeks ended Feb. 3, 1940, have been successively 46, 94, 158, 291, 416 and 350. These figures are higher than the normal figures for this time of the year, but the age-distribution of the deaths is of the normal type, so that the greater numbers of deaths suggest prevalence of the disease rather than its occurrence in unusual severity.

Women Medical Students

Dr. SUMMERSKILL asked whether the Government, since the war, had assumed any control over the policy of the teaching hospitals, particularly with regard to the proportion of men and women students who were admitted.—Mr. ELLIOT replied: No. This is a matter which lies in the discretion of the teaching hospitals.

Dr. SUMMERSKILL: In view of the financial support which the Government have been giving to voluntary hospitals since the beginning of the war, and the increasing need for medical personnel in the armed forces, does not the Minister think that the time has arrived when he should make representations to the voluntary hospitals in order that both sexes should have equal facilities for medical education?—Mr. ELLIOT: The voluntary hospitals are jealous of their rights on the matter, but certainly I will take note of what the hon. lady has said.

Sir ERNEST GRAHAM-LITTLE: Is it not well known that the schools belonging to the voluntary hospitals are quite separate from the hospitals?

Miss RATHBONE: Is it not the case that the great majority of London hospitals take no women medical students, and that therefore there is likely to be a great shortage as the need for male doctors increases?

Mr. ELLIOT: I do not think that arises out of the question.

Recruits and Nervous Instability

Rear-Admiral BEAMISH asked the Minister of Labour what steps were taken to bring to the notice of the medical boards before whom conscripts and others appeared the report of the conference convened in July last to consider and advise on nervous instability which might become manifest in war and which had described shell-shock as a costly misnomer.—Mr. ASSHETON replied: The instructions issued for the guidance of medical boards engaged in examining recruits for the armed forces with regard to the estimation of nervous stability in determining a man's appropriate grading already follow the main recommendations of the conference referred to. The question whether any further instructions are necessary is under consideration.

Emergency Medical Service

Sir ERNEST GRAHAM-LITTLE asked the Minister of Health whether he had now been able to extend the concession of part-time service in the Emergency Medical Service to the recipients of second-grade salaries on a parity with the terms offered to the higher-grade salaried officers in the same service, that was, with a remuneration of five-eighths of the full salary; how many officers had been admitted to this concession; what was the full number of officers open to receive it; and at what date the offer was made.—Mr. ELLIOT replied: Careful consideration has been given to representations made on the matter by the Advisory Emergency Medical Service Committee, but the volume of work now falling on officers of the grade referred to is such that I am unable, at the present time, to make them the offer suggested.

Sir E. GRAHAM-LITTLE asked the Minister whether he was aware that the secretary of the Central Medical War Committee had represented the Advisory Emergency Medical Service Committee as a body delegated by the Central Medical War Committee of the British Medical Association to present the profession's views on Emergency Medical Service problems to the Ministry; whether the advisory committee was in effect a subcommittee of the Central Medical War Committee, deriving authority from that body; and whether the advisory committee was in any way subordinate or responsible to the British Medical Association Committee.—Mr. ELLIOT replied: I think that the hon. member is under some misapprehension. The Advisory Committee was appointed by, and reports to, the Central Medical War Committee, which is not a committee of the British Medical Association.

Air-raid Casualties and Country Practitioners

Mr. GROVES asked the Minister whether the sum of 16s., agreed upon by him for the treatment of air-raid casualties, would be increased for the benefit of country practitioners who would have heavy travelling expenses in connexion with such cases.—Mr. ELLIOT replied: I have this matter under review and am prepared to consider an appropriate addition to the fee, if it appears in the light of experience that an abnormal amount of travelling is required in certain areas.

Sick Soldiers in Billets

Mr. TOMLINSON asked the Secretary of State for War whether he would consider making reasonable provision in billets in this country for men of H.M. Forces who were sick but not bad enough to be sent to hospital.—Mr. OLIVER STANLEY replied: Reception stations, camp hospitals and regimental medical posts are provided in all areas where troops are billeted, for the accommodation and treatment of cases of minor illness.

Mr. TOMLINSON: Will the right hon. gentleman again inquire into the cases where men are billeted in schools, and where this lack of provision has led to a good deal of misery, to put it mildly, during the outbreak of influenza?—Mr. STANLEY: Yes. I am taking immediate steps to inquire into the whole question of medical arrangements for men in billets. I should be glad if hon. members will send me well-authenticated reports because they will help me and my advisers at the War Office in investigating the matter.

Deaths from CO_2 in Naval Hospitals

Sir JOCELYN LUCAS asked the First Lord of the Admiralty if his attention had been drawn to the fact that on Feb. 2 two inmates of the Royal Naval Hospital at Haslar died as a result of carbon dioxide being erroneously placed in an anæsthetic machine and administered during operations; whether adequate steps had now been taken to prevent a recurrence; and whether pecuniary compensation would be given to the relatives or dependants.—Mr. CHURCHILL replied: I am aware of the very regrettable accident. The fullest investigation is being made, but in the meantime immediate steps are being taken to prevent the recurrence of such a case. For the purpose of payment of pension these men's deaths will be regarded as attributable to naval service. The question of further compensation will be considered when the inquiries have been completed.

Evacuation Plans

After outlining, in reply to a question from Mr. GREENWOOD, the progress and development of the Government's evacuation plans, Mr. ELLIOT informed Sir E. GRAHAM-LITTLE that it was the intention that expert medical inspection should form an integral part of the scheme.

Medical Inspection of School-children

Replying to Mr. DAVID ADAMS, Mr. LINDSAY, parliamentary secretary to the Board of Education said, that in the great majority of areas routine medical inspection was now being carried out, or would very shortly be resumed. There were, he said, a great many reasons why inspection lapsed five months ago, but the main reason was the very great difficulty of carrying out the supplementary services connected with civil defence.

National Camps

Mr. MANDER asked the Minister of Health the present position with regard to the camps built by the National Camps Corporation, Limited.—Mr. ELLIOT replied: Twenty-two camps have now been provisionally allocated to local education authorities. Two schools are going into camps next Monday (Feb. 19), and one school on the Monday following (Feb. 26). The remaining nineteen of the twenty-two camps allocated will be occupied as soon as the education authorities have made the necessary arrangements, and certain adaptations have been completed.

Milk for School-children

Mr. DAVID ADAMS asked the Minister of Agriculture whether milk production was now being fully maintained; what was happening to the milk that would normally, but for evacuation, have been supplied to the school-children; and whether immediate steps were being taken, in conjunction with the Board of Education, to recommence the distribution of milk to school-children, especially in depressed areas, whether schools were open or not.—Mr. R. V. GRIMSTON replied: Particulars of milk production during January are not yet available, but up to the end of December production was well maintained. There has been some reduction in the demand for milk under the milk-in-schools scheme and the milk not so required has been used for manufacturing purposes. I understand that attention has been called by the Board of Education to the importance of resuming arrangements for the supply of milk to school-children in all areas where such arrangements have been interrupted, and that the board have indicated that it should be practicable to provide milk for children not in attendance at school, subject to certain safeguards.

Silicosis Regulations

Sir ARNOLD WILSON asked the Home Secretary whether his attention had been drawn to the unanimous judgment of the Court of Appeal in Foster *v.* Llanelly Steel Company, in which Lord Justice Mackinnon regretted the restrictive terms of the silicosis regulations made by the Home Department; and what action he proposed to take in the matter and when.—Sir JOHN ANDERSON replied: I will consider the position further, but I understand that an appeal to the House of Lords is contemplated in the case referred to.

Byssinosis

Mr. TOMLINSON asked the Home Secretary whether he was now in a position to inform the House if the promised scheme of compensation for sufferers from byssinosis is ready for submission to the parties concerned in the Lancashire cotton industry.—Sir JOHN ANDERSON replied: I hope in the course of the next few days to send some detailed proposals to representatives of employers and workers for their consideration.

Liver for Medical Purposes

Mr. PARKER asked the Minister of Food whether he was aware that there was a shortage in the supply of liver for patients suffering from pernicious anæmia; that the price had seriously increased; and whether he would ration supplies, and control prices, giving first preference to those requiring liver for medical reasons.—Mr. W. S. MORRISON replied: I am aware of the recent shortage of supplies of liver. This was a consequence of the considerable reduction in the slaughtering of livestock during the severe weather conditions of the past few weeks. Supplies of imported liver were and are normal and with the increases in slaughtering supplies of home-produced liver are also approaching more normal levels. (2) The maximum retail prices at present current for liver over the country as a whole are not appreciably above the prices ruling before the outbreak of war. (3) Hospitals and manufacturers of pharmaceutical products are receiving priority of allocation of liver where they make their requirements known. Prices for liver are of course already controlled.

Massage

Mr. GALLACHER asked the Minister whether he was aware that many hospitals had closed down their massage departments as a war-time economy, and that as a consequence not only had a number of skilled masseurs been thrown out of employment but great hardship had been caused to thousands of patients; and whether, as the cessation of massage treatment for such complaints as rheumatism would cause many post-war cripples, he would take steps to get massage facilities brought up to at least a pre-war level.—Mr. ELLIOT replied: I appreciate the importance of maintaining massage facilities, and inquiries which I have made show that, although there was at the beginning of the war some curtailment of the work of the massage departments of some hospitals, there has been a general reopening of outpatient departments at which massage treatment is given. I may add that provision for massage is also being considerably increased under the emergency hospital scheme.

In the House of Lords on Feb. 13 the Mental Deficiency (Scotland) Bill was read the third time and passed.

This year the special and general hospitals of London will hold combined flag days, and all hospitals will have the opportunity of collecting twice. The days chosen are Tuesdays, May 7 and Oct. 8. The combined collections for 1939 amounted to over £74,000.

OBITUARY

HERBERT CAMPBELL THOMSON

M.D. LOND., F.R.C.P.

Dr. H. C. Thomson died on Feb. 11 at Weir, Dulverton, where he had retired 20 years ago when his active life at Middlesex Hospital ended. He was in his 70th year. In his retirement he retained the affection and respect of Middlesex men of this generation, as he had secured the gratitude of an earlier generation for his ready help with their researches and writings. Something of this feeling was expressed when he was invited to preside at the festival dinner to celebrate the school centenary in 1935. He had been dean at a difficult time and his gift of inspiring friendship and confidence was a large factor in building up the school in the early years of the century. His opportunities were small, but he made the most of them, and success was in sight when Sir John Bland-Sutton presented the pathological institute. In his relation to students Campbell Thomson was the perfect dean. He was always at their service—indeed, it is on record that he was called in the small hours to go bail for a student who found himself in trouble. He joined wholeheartedly in the club life and sports; no-one realised better than he that it is not in classes that esprit de corps and loyalty are generated and fostered. When Middlesex was playing, no hospital cup-tie was complete without him as touch judge. Once he saw his beloved fifteen reach the final and lose by a point to a team with several internationals in it; this was what he loved, to take his own men and make them keen sportsmen, not to recruit a team and win a prize. His enthusiasm may have led him into some little embarrassment when he took the team on tour in France, but he saw the visit through with no international incident. A communal effort of a different sort which gave him enormous pride was the Middlesex Hospital company of the O.T.C., the largest company of the London schools.

Campbell Thomson's success as dean did in fact overshadow a little his contribution to medicine and to his own specialty. Winning the premier scholarship as a student made him a marked man. After long service in the pathological department, laying foundations for a career as physician and teacher, he reached the honorary staff. Before specialising in neurology he gained a large experience in general medicine as assistant physician to the hospital. He had to wait patiently, for it was a time when special departments were not encouraged, and throughout the struggle he made no enemies. In the hour of his accomplishment he saw that development of his ambitions could only be achieved by younger hands. But he felt he had received full reward for his labours in seeing the department flourish under the guidance of his successor. He was himself a great teacher; one of the first, if not the first, to see the possibilities of the cinema for clinical teaching. He used it to demonstrate the peculiarities of gait and movement associated with various nervous diseases. His book on Diseases of the Nervous System owed its popularity to his lucidity of thought and gift of exposition. His choice of "The work of Bell in relation to modern neurology" as the subject of his presidential address to the neurological section of the Royal Society of Medicine revealed his interest in the historical background of medicine and was a characteristic act of piety to the Middlesex Hospital, on the staff of which Bell had been his predecessor. At the Maida Vale Hospital, of which he was senior physician when he retired, his wide experience and sound clinical judgment were highly valued by his colleagues.

Outside the profession too he had many friends, particularly among fishermen. After retirement he compiled a book from fireside talks with old sportsmen who harboured stags on the moor and knew all their tricks. He was a pioneer motorist, and his friendship with Sir Henry Royce led to one of the early essays in industrial medicine. Thomson made periodic visits to the works at Derby, where many cases of illness were cut short or prevented by timely medical advice.

His final act, to tell the story of the Middlesex Hospital medical school, was a labour of love by a sick man. It was a living picture of the past depicted with the skill of an artist steeped in the traditions of his alma mater. But the chairman of the hospital complained that he could find no reference in it to the dean who had steered the school through the war years with such wisdom and imperturbability.

Dr. Campbell Thomson was son of Dr. David Thomson and was born at Higham Ferrers in 1870 and educated at Epsom College. In 1895 he married Constance Frere, daughter of Dr. Temple Frere, the first dean of the medical school. She survives him with two daughters.

GEORGE A. MAXWELL SMITH

M.B. EDIN.

SURGEON-LIEUTENANT, R.N.

Surgeon-Lieutenant G. A. M. Maxwell Smith, who was lost on H.M.S. *Exmouth*, was the eldest son of Mr. and Mrs. George H. Smith of Edinburgh. He was born in 1910, and he graduated M.B. at Edinburgh University in 1934. In the summer of 1935 he was house-surgeon under Mr. George Chiene at the Royal Infirmary. He then acted as ship's surgeon to the s.s. *City of Simla* on a voyage to India, and on his return went as an assistant in a general practice in Longtown, Cumberland. He joined the Royal Navy in April, 1936, and in November of that year he was appointed to H.M.S. *Devonshire*. He served as second medical officer in that ship for two and a half years in the Mediterranean. On returning from the Mediterranean he received word of his appointment as house-surgeon with Prof. Grey Turner at the British Postgraduate

Lafayette

Medical School, Hammersmith. This appointment was to have begun on Oct. 1, 1939, but it was postponed owing to the outbreak of the war. After a short term of leave he was appointed to H.M.S. *Exmouth*.

Mr. Chiene writes: "Maxwell Smith was a member of my clinical surgery class during the autumn term 1932 and acted as one of the non-qualified assistants along with A. J. Rhodes, D. G. Rowley and I. Macpherson, a very competent quartet. He was resident house-surgeon in the wards under my charge during the summer of 1935. In both capacities his work was thorough and very reliable. Thus, and by his kind consideration for his patients, he gained the respect of both colleagues and nurses. Shortly after he left the infirmary he told me he intended joining the Royal Navy. I had a most interesting letter from him in 1938 from Malta, telling me of his experiences in the Mediterranean during the Spanish Civil War. This letter included an account of the miseries of the inhabitants of Barcelona and Valencia at that time. The last I heard from him was in July, 1939, informing me that his new work was to be in one of the destroyers of the Reserve Fleet and that he hoped in the near future to visit the Firth of Forth and to see his friends in Edinburgh again. But it was not to be."

And Dr. A. J. Rhodes adds: "In his student days Maxwell Smith had a wide circle of friends whom he greatly impressed by his outstanding qualities of modesty, kindliness and tact. These characteristics would have taken him far, for they were combined with a high degree of competence in his professional work. We mourn the loss of a most loyal friend and one who worthily upheld the traditions of his university and of the service which he intended to make his career."

JAMES AITCHISON (1853–1940)
HENRY HYSLOP AITCHISON (1860–1940)

A Newcastle correspondent writes: In your pages it is fitting that there should be some record of this notable family of Tyneside doctors of three generations. My first acquaintance with the family some sixty years ago was when, as a little nipper, I peeped into the drawing-room—as is the wont of small boys—and saw an old man with white hair and white beard, an imposing figure, for the impression is vivid to this late day. This was Dr. James Aitchison, the father of Henry and James and two other sons, all four of whom became doctors. His must have been a prosperous career, for he lived in a pretentious mansion in spacious grounds and the house stands out to this day midst the modern brick-built efforts which engulf it. One son migrated to Australia. Another, Dr. Tom Aitchison, settled in nearby Willington Quay, where, looked after by his sister—one of four daughters, none of whom married—he gained an outstanding name, and entered into local public affairs. He died a few years ago.

Dr. James Aitchison—also a bachelor living with his sister—outlived his youngest brother, Dr. Henry, who died on Jan. 17, by one week. He started practice at Barras Bridge in Newcastle, where he quickly gained a reputation both as a family doctor and as a surgeon, for not only did he undertake the usual surgery which falls to the lot of the practitioner, but also major operations such as ruptured gastric ulcer and prostatectomy, then in its early days. He spared neither pains nor expense to equip himself for the profession he devotedly served. He was an elder of the Presbyterian Church and a large number of his patients were Scots. Of a lovable disposition, he retained the loyalty of his patients at a time when elsewhere this bond was slackening. His manner of speaking was distinctive and somewhat quaint. He lived quietly, intent on his practice, though in his early days he could unbend in the parish hall.

Dr. Henry Aitchison, his youngest brother, was a different personality. He took over his father's practice and kept the family name green in Wallsend till the day of his death sixty years later, despite a countless influx of competitors. His father had been the only doctor when the now busy town was only a village, and he held all the administrative appointments. As a young man he at once entered into public life. He was so young indeed when elected a county councillor that a local bigwig asserted that he was "too young for honours." Unlike his two brothers, he married. His wife was the daughter of Andrew Leslie of Hawthorn Leslie, ship-builders. He had no crotchets, but took a broad common-sense view of life. He was kindly and sympathetic to those who sought his advice, and ready to help them to obtain fair play. He never forgot a good turn, even after a lifetime.

Thus ends the second generation of this medical family, distinguished by their long years of public and private service to the community, and the way in which they have upheld the best traditions of medical practice. In the third generation two sons, also doctors, survive to carry on the banner of this remarkable family.

ELIZABETH MACFARLANE SLOAN CHESSER
M.D. GLASG.

Dr. Sloan Chesser, who died in London on Feb. 16, aged 62, was the daughter of Dr. Samuel Sloan of Glasgow. She was educated at Queen Margaret College, Glasgow, at a time when a woman medical student needed as much determination to cope with her friends as with her studies. In her autobiography Dr. Chesser said she had received encouragement from her father and healthy criticism from her family. But even then she had a just appreciation of life, for she spent half an unexpected windfall on a book by Osler and half on a fashionable blue toque. At college she had already begun to earn money with her pen, but she was not distracted from her course and she carried off many prizes before she graduated M.B. in 1901. The next year she married Mr. Stennett Chesser of Edinburgh and soon went to live near Gloucester. For a time she did not practise, but the last war found her in London with work to do. Her interest in physiology and hygiene for women was reflected in her appointment as medical officer at Woolwich Arsenal, at the Eltham hostel for munition-workers, and at the Carshalton maternity and child-welfare centre. She also held a temporary post as assistant physician at the Queen's Hospital for Children. Her father had grounded her in electrology, and in 1918 she published in our columns a paper on faradisation of the mammary glands and breast-feeding. In the following year she obtained the M.D. Glasg. with commendation.

Lafayette

As a lecturer Dr. Chesser knew how to make common sense memorable and telling, and in this capacity she served the British Red Cross Society and the National Council for Combating Venereal Diseases. She was one of the first to demand for young people enlightenment about the physiology and psychology of sex and by her lectures showed that this could be done acceptably and scientifically. She had also written a handbook on physiology and hygiene for girls' schools and colleges. She had very definite views on the upbringing of children and the importance of general hygiene for the individual and in the home. In her statements she was often provocative, probably deliberately so in order to arouse discussion and stimulate interest. She was tolerant and elastic in her outlook, but in her less formal writings on the relationship between parent and child and on marriage it was clear that she did not allow her sympathy with the young to affect her sense of values.

Dr. Chesser had two sons, both of whom are now serving with the R.A.M.C.

A. S. writes: Elizabeth Sloan Chesser was an outstanding character, with enormous vitality and energy, and an abounding kind-heartedness. She entertained much in her Harley Street home, and there one would meet all the most able men and women of every profession and occupation in an unbending mood. Just as Harry Lauder and Gracie Fields infect with gaiety the most serious audience and oblige them to forget themselves and sing, so "Biddy" had the gift of bringing out the common humanity of a silent company and inducing them to talk and laugh. She had a flair for writing; in college days how we used to envy her, earning a good salary by a weekly article! She set herself the aim of introducing medical knowledge into the home, so that much unnecessary illness could be avoided in daily life. Everything which she undertook was carried out with energy, but also with a joke and a lightness of hand. In electrotherapy she had been trained by her father, Dr. Samuel Sloan of Glasgow (to whom I also am deeply indebted). In dealing with patients she had a quick, sensible brain, a fund of sound and practical common sense and a wide knowledge of life. She met her last illness with gallant courage. "What is physical pain?" she said. "I have lots of friends around me." She was full of plans for a new book which she was beginning a few weeks before her death. She will be sadly missed by her husband and sons, and the large circle of her friends and patients.

LIEUTENANT A. E. HILL, R.A.M.C., who died while serving in a military hospital in England, was born in Bulawayo and grew up in Kroonstad. After the last war he studied medicine in this country at Guy's Hospital, qualifying M.R.C.S. in 1925. He returned to South Africa where he held resident appointments at the Kimberley Hospital till he went into partnership with Dr. Vaughan Jones. In 1927, while on a visit to this country, he took the D.M.R.E. at Cambridge. He continued to practise in Kimberley, where he was medical officer to the South African Railways and a member of the honorary staff of the Kimberley Hospital. Dr. Hill was on leave in England when war broke out and he at once joined the R.A.M.C. He was a brother of Dr. Dora Hill of Southgate.

PUBLIC HEALTH

London's School-children

EVERYTHING connected with the school medical service of London is on a big scale—there are nearly half a million children on the elementary school roll alone—for not only is London the most populous county in the country, but it is the only one responsible for education in all its districts. The report of the school medical officer for 1938 [1]—the last for which Sir Frederick Menzies will be responsible—gives the number of children inspected during the year as 170,970. There were only 38 refusals of parents to submit their children to inspection. Children needing treatment, other than for malnutrition, uncleanliness and dental disease, numbered 20,244 or 15·6 per cent. of the total. The percentage of children "found free from traces of nits or pediculi in the hair" was 97·7 and only 86 children were found infested with body vermin. These findings cannot be challenged, but they do need to be reconciled with what was found in London children evacuated in September, 1939. One explanation of the discrepancy is that evacuation took place at the end of the summer vacation when for some weeks the children had been unsupervised. If this explanation is the true one, the London County Council could prove it by showing the difference in lousiness of children before and after the long vacations in former years. "It must be remembered," says the report, "that the parents are warned of the medical inspections upon which these figures are based, and the children appear spick and span for the occasion."

The proportion of children with defective vision does not vary appreciably from year to year, for most of the so-called defects are departures from emmetropia within physiological limits and these are constant, but the influence of visual hygiene is manifested by a diminution of the excessive incidence of visual defects in older girls compared with boys. There has been a fall in the percentage of children with enlarged tonsils, adenoids, other throat and nose diseases and otorrhœa. These are genuine reductions in spite of alterations in fashions of recording. The percentage of children with otorrhœa in 1913 was 2, by 1930 it had fallen to 1 and in 1936–38 to 0·7. Heart defects are found in 1·4 per cent. of children routinely inspected, but since the functional, which matter little, are not separated from the organic, which matter much, the statistics are of little value in gauging the position, though the report points out that "the continuous reduction in the percentage of children found with heart disease of late years corresponds with the increase in preventive measures." The report on the rheumatism scheme supports this statement. It must be borne in mind that the percentage of children found in school with heart disease is a very different thing from the percentage of children of school age with heart disease. The same applies to the recorded incidence of tuberculosis and other grave disorders which preclude education in public elementary schools.

Though both the condition of the children and the arrangements made for the treatment of those who need it are satisfactory it is not satisfactory that of the children found to need treatment on inspection 33·6 per cent. had not received it on first reinspection and 35·7 per cent. on second reinspection. Failure to obtain dental treatment is most prominent, but apart from this it appears that nearly a quarter of London

1. London County Council. Report of the School Medical Officer for the year 1938. P. S. King and Son. Pp. 74. 1s. 6d.

school-children who need treatment never obtain it. A table of chronic invalids—i.e., of those children who had been out of school for three months or more—gives 363 for November, 1938 compared with 512, 573 and 750 for the three preceding years. About a quarter of these children are absent for rheumatism, chorea or heart disease. This table may be misleading if it gives the impression that of the children of school age in London—well over a quarter of a million—there are only 363 chronic invalids.

Diphtheria immunisation in London is carried out by the metropolitan boroughs and not by the county council except in connexion with their special schools. At two centres children are passively immunised against diphtheria and scarlet fever before being submitted to operation on the tonsils, and the school medical officer reports that "the previous high incidence of postoperative scarlet fever and diphtheria at the clinics has disappeared."

In the chapter on child guidance only 113 cases of enuresis are said to have been referred to the clinics, but judging from the laments of receiving areas this cannot be more than a small proportion of the bed-wetting children in the county. Enuresis limited to bed-wetting would not be apparent either to school teachers or to the medical inspectors and the report cannot tell us whether this serious defect is more common in London than in the provinces, though those who received evacuees from London aver that it is. A bed-wetting child in his own home is not an official nuisance, whereas if he has to be billeted most emphatically he is.

Cerebrospinal Fever

Remembering the experience of the last war, the trend of notifications of cerebrospinal fever in the last few weeks has been distinctly disquieting. During the earlier part of December of last year the number of cases reported was not abnormal, some 25 weekly. In the last week of the year it rose to 45 and in the first five weeks of this year the sequence has been 53, 107, 144, 190 and 295 (in the week ended Feb. 3). In the last epidemic year (1931) the maximum number of cases in any one week was 83, while in 1915 it was just over 200 cases, both peaks occurring in mid-April. It is clear that the level of the last two weeks, for which figures have not yet been published, is likely to have been substantially in excess of the worst period of 1915. The records of the weeks ended Jan. 27 and Feb. 3 show too that the distribution has been widespread. Of the 49 administrative counties of England only 8, mainly small areas, failed to report cases. In Wales the incidence has been relatively very heavy in Denbighshire, Glamorgan and Monmouthshire, while 6 of the 13 counties report no cases. From the figures for individual towns those for Plymouth, Salford and Oxford catch the eye. The returns do not, unfortunately, distinguish between civilian and non-civilian cases.

Influenza and Pneumonia

The return of the Registrar-General for the week ended Jan. 27 showed that the deaths attributed to influenza in the great towns, and the notifications of primary and influenzal pneumonia in the country as a whole, had up to that date been steadily rising since the end of the previous year. Both had then reached a level substantially above that of the last two years. The rate of increase in pneumonia was, however, clearly slackening. In the week ended Jan. 6 notifications were 68 per cent. above those of the preceding week, while in subsequent weeks the excess over the level of each previous week was 31, 19, 16 and 8 per cent. In the return for Feb. 3 the deaths from influenza in the great towns are given as 353. It seems likely, therefore, that the peak of the epidemic for the country as a whole was passed at the beginning of this month and that later returns will show a continued decline. In reply to a Parliamentary question Mr. Elliot reported that the age distribution of the deaths had been of the normal old-age type.

	INFLUENZA DEATHS IN THE GREAT TOWNS			NOTIFICATIONS OF PNEUMONIA IN ENGLAND AND WALES		
Week ending in 1939–40	1939–40	1938–39	1937–38	1939–40	1938–39	1937–38
Dec. 9	23	26	46	445	796	1103
„ 16	25	36	52	455	952	1129
„ 23	27	41	46	456	836	1106
„ 30	46	89	59	662	1147	1663
Jan. 6	94	144	77	1109	1669	1633
„ 13	158	214	91	1457	1804	1652
„ 20	291	223	73	1733	1644	1326
„ 27	416	173	60	2002	1512	1302
Feb. 3	353	210	66	2169	1442	1129

INFECTIOUS DISEASE

IN ENGLAND AND WALES DURING THE WEEK ENDED FEB. 3, 1940

Notifications.—The following cases of infectious disease were notified during the week: Smallpox, 0; scarlet fever, 1107; whooping-cough, 484; diphtheria, 631; enteric fever, 13; measles (excluding rubella), 3625; pneumonia (primary or influenzal), 2169; puerperal pyrexia, 158; cerebrospinal fever, 295; poliomyelitis, 10; polio-encephalitis, 1; encephalitis lethargica, 4; dysentery, 47; ophthalmia neonatorum, 59. No case of cholera, plague or typhus fever was notified during the week.

To the 295 cases of cerebrospinal fever Berkshire contributed 9 (4 each in Reading and Newbury); Devon 9 (7 in Plymouth); Lancaster 18 (7 in Salford); county of London 24 (3 each in Kensington, St. Pancras, Southwark and Westminster); Oxfordshire 13 (10 in Oxford); the county of Southampton 22 (5 in Portsmouth); Surrey 11; Warwickshire 11 (7 in Birmingham); Wiltshire 21 (6 in Pewsey, 4 in Swindon); West Riding of Yorkshire 14; Denbighshire 8 (5 in Wrexham); Glamorgan 17 (4 each in Cardiff, Swansea and Rhondda); and Monmouthshire 8 (5 in Newport).

Deaths.—In 126 great towns, including London, there was no death from smallpox or enteric fever, 8 (0) from measles, 1 (0) from scarlet fever, 6 (0) from whooping-cough, 26 (0) from diphtheria, 33 (8) from diarrhœa and enteritis under 2 years, and 353 (37) from influenza. The figures in parentheses are those for London itself.

There were 5 fatal cases of diarrhœa at Liverpool, 3 each at Birmingham and Nottingham. Liverpool and Birmingham each reported 4 deaths from diphtheria, Sheffield and Rhondda each 2.

Deaths from influenza have fallen this week to 353 (from 417 last). Of the 316 outside London 84 were reported from the south-eastern area (Southampton 11, Portsmouth and Oxford each 8, Reading 6); 120 from the northern area (Manchester 13, Liverpool, 9, Sheffield 7, Bolton, Southport and York each 6); 73 from the midland area (Bristol 17, Birmingham 15, Nottingham 9); 16 from the eastern area (Norwich 7); 10 from the south-western area. In the Scottish return for the same week Glasgow reports 93 deaths and Edinburgh 31.

TEMPORARY HOSPITAL AT BRISTOL.—The health committee of Bristol have obtained permission to take over for the duration of the war the new homes for the aged and infirm built by the public assistance committee. It was stated at a meeting of the city council that over 800 people were waiting for admission to the voluntary hospitals, and that pneumonia cases had had to be refused admission to the General Hospital. The increased population of the city had thrown a heavy strain on the existing hospitals.

LETTERS TO THE EDITOR

THE G.P. AND THE VOLUNTARY HOSPITAL

SIR,—Recent correspondence in your columns has revealed defects in the voluntary system as we know it. Briefly stated these are: (1) Excessive centralisation of medical and surgical work. (2) Concentration of all serious illness in the hands of a relatively small section of the profession. (3) Isolation of the general practitioner from all hospital contacts. (4) Failure to provide for chronic and incurable illness. (5) Tendency to excessive specialisation. And they have had two disastrous consequences: (*a*) Expensive treatment for all private and non-benefit patients. (*b*) A general practitioner class which becomes more depressed, spiritually and economically, as the years go by.

The remedy proposed by many is a state medical service. Decentralisation of hospitals, multiplication of specialists, and an assured income for all are envisaged in the scheme. Even the general practitioner seems to agree that he has no part in a hospital scheme, judging by the absence of any claims put forward. In my view the public will be very foolish if they agree to such a service. Free choice of doctor is a privilege they should never give up. It is the only check they have on medical autocracy. No section of the community is fit to be trusted with absolute power, our own no more than any other. Is there no half-way measure between the two extremes? I suggest there is.

In the first place, the foundation of all services depends upon the general practitioner, and to be a really good practitioner one must have had hospital experience and retain some contact with hospital life. Let us keep our splendid teaching hospitals and staffs, and by decentralisation relieve them of the congestion that is slowly choking them. Seventy-five per cent. of ordinary medical and surgical cases should be treated in the smaller hospitals. We ought not to be satisfied until the country is covered with a network of hospitals each of about one hundred beds, working in group areas around the great teaching centres. Let these be staffed by general practitioners, and let a body of consultants be available from the big centres when required. Specialisation should be restricted to men attached to teaching schools and large hospitals—incidentally, even specialists should have to spend at least twelve months with an approved general practitioner. It is in practice that the beginnings of disease are seen and the greatest difficulty in diagnosis arises. Further, the specialist would have a far better understanding of the difficulties of practice.

It may be argued that the scheme is impossible. I would reply that there are hospitals in this country where the system is worked successfully, and where the relations between consultants and practitioners are excellent. The private work of the consultant has not suffered. To the practitioner it has meant a higher level of work, a better standard of living, and a firmer hold on the respect of the community.

I am, Sir, yours faithfully,

Kendal. C. M. CRAIG.

THE FUTURE OF CLINICAL TEACHING

SIR,—If my calculations are correct, the remuneration suggested by Professor Ryle for consultants at present attached to the twelve teaching hospitals in London alone would amount to £438,000 per annum. To this would have to be added the salaries of registrars and housemen, who naturally would have to be paid considerably more than they are at present; and it is also certain that the state will have to contribute an enormous sum towards the maintenance of the voluntary hospitals. It is true that Professor Ryle envisages a considerable reduction in the proportion of staff to beds, but against this must be set the inevitable and considerable increase in the number of beds which must be provided. When one reflects that similarly gigantic sums would have to be found for Glasgow and Edinburgh, Liverpool and Manchester, and many other places, one begins to wonder if even an Independent Progressive Government would be able to provide the necessary money, appealing though might be the prospect of consultants abandoning their luxury cars and country cottages, elevating their debased ethical and teaching standards, and discussing "service" in the refectory.

I am, Sir, your obedient servant,

Montagu Square, W.1. MAURICE CASSIDY.

A. P. T.

SIR,—The Oxford Dictionary defines "discredited" as "brought into discredit or disrepute" and in this classical work are to be found such terms as: "loss or want of credit; reproach; loss or absence of reputation; ill repute; disesteem; dishonour" applied to the words "discredit" and "disrepute." On reading the leading article in your issue of Feb. 10 on the prevention of diphtheria two things struck me about the phrase (in parenthesis) "the 'one shot' method of administering A.P.T. is now completely discredited." The first of these was the persistence of the expression "one shot" and its repetition in a journal like THE LANCET, the second was the use of the word "discredited" and the emphasising effect of its qualifying adjective. Unless I am mistaken, I think THE LANCET was the first British journal to publish results of the clinical application of A.P.T. so that you must take your share of the various reproachful meanings embraced under the words "completely discredited."

I am not quite sure, however, that the single-dose method of administering A.P.T. deserves all these strictures. In the first place it may surely be said that, if it has not achieved repute of itself, it has at least blazed the way for the methods which followed it; nor, secondly, am I quite so certain that it has deserved the discredit which has been attached to it. We have records in this department of 2791 children who were treated by the single-dose method between December, 1934, and December, 1936, and of this number seven have subsequently developed clinical diphtheria, which is approximately 0·25 per cent. I am aware, of course, that there is a considerable volume of experimental work which tends to prove that there is a more rapid elimination of circulating antitoxin with the single-dose method than with multiple injections; but it seems to me that the acid test is actual experience in the field rather than experimental work in the laboratory, and it is difficult to conceive how any method can show a better result than this; for it must be remembered that there are still carriers in this community and still cases of diphtheria, although the latter have been very considerably reduced—largely, I believe, through the instrumentality of A.P.T. used in single doses.

In common with other workers the method of choice here now is the multiple dose, which I believe is probably the correct one; at the same time I think it is quite incorrect to assume that the older method has

been entirely discredited. I believe it is proper to assume that it should still play an important part in combating epidemic diphtheria when rapid and widespread protection becomes an urgent necessity.

I am, Sir, yours faithfully,

J. C. SAUNDERS,

Public Health Department Cork. Medical Officer of Health.

*** We had no intent to belittle the importance of early experiments with alum-precipitated toxoid, some of which were reported in these columns, but opinion as to the immunising value of a single injection has been modified by experience. It is now accepted that to achieve lasting immunity in a mixed child population the stimulus of a second injection is required. Dr. Saunders had[1] good results with a single dose of A.P.T. but he pointed out at the time that the natural immunity rate of children in his area was known to be high.—ED. L.

AGGLUTINATION OF PROTEUS IN RAT-BITE FEVER

SIR,—In the differential diagnosis of tsutsugamushi rat-bite fever deserves consideration, even where no certain history of rat-bite is elicited. The ulcer in rat-bite fever is larger, more irregular in outline, and painful. On the trunk the elements of the rash are larger. Later, recurrent bouts of fever and other symptoms make diagnosis easy. The *Spirillum minus* is readily found in the blood of guineapigs infected experimentally. Dr. Savoor has lately seen a case of rat-bite fever at this institute, and he found that the serum of rabbits inoculated with infected material agglutinated the OXK strain of proteus, a finding we obtained once before, but hesitated to publish until confirmation was forthcoming. I do not think this most unexpected finding has previously been described. I am, Sir, yours faithfully,

R. LEWTHWAITE.

Institute for Medical Research, Kuala Lumpur, Federated Malay States.

NUTRITION IN WAR-TIME

SIR,—Medicus M.P., in his notes of Feb. 3, states that "the diet of some 10 per cent. of the population is deficient in milk and other protective foods. . . ." In case this comfortable view is shared by others, it should be pointed out that such facts as are available indicate quite a different state of affairs. Orr in "Food, Health and Income," 1936, estimated the expenditure on food of the different social classes and analysed their diets, using a slightly modified Stiebeling standard. He found that the diet of 50 per cent. of the population was deficient in minerals and vitamins; and this 50 per cent. contained the majority of the nation's children. Crawford and Broadley in "The People's Food," 1938, on the basis of a detailed investigation into the diets of 5000 selected families, confirm as near as makes no difference Orr's estimate of the expenditure on food. They further show that the percentage of the total income which is spent on food varies from 55·13 in the lowest to 43·2 in the highest income group, in that 50 per cent. of the population under consideration. Clearly, the diet of these people can only be improved by a general rise in their incomes or a steep fall in the cost of living.

Crawford and Broadley costed the B.M.A. "minimum" and the League of Nations "optimum" diets. They found that on the prices being paid between October 1936 and March 1937, 35·8 per cent. of the population were living in homes where the weekly expenditure on food per head fell below the cost of the B.M.A. diet, and 51·7 per cent. where it was below that of the League of Nation's diet. As to milk, the League of Nation's Mixed Commission recommended an average consumption of about six pints a week. This figure was reached in Switzerland and the U.S.A. In Great Britain in 1930–31 it was (League of Nations, Final Report) 3·5 pints a week according to Astor and Rowntree, "British Agriculture," 1939, it was a little over a third of a pint a day. "The People's Food" analysed the milk consumption in the different social classes and found a sharp decline from 5·3 pints per head per week in the richest class to 1·57 in the poorest.

Bearing these facts in mind it is gratifying that "nutrition in this war is being watched as it never has been watched before." The compulsory vitaminisation of margarine is a step in the right direction. But, much more important, the Milk Marketing Board have already threatened a rise in the price of liquid milk. The Government have now taken over the nation's food, if not milk, supplies. Their first aim on the home front surely should be to keep the price of the essential foods, especially milk, within the reach of the mass of the people—coupled, of course, with intensive propaganda to encourage their consumption. Various experiments at selling milk cheaply in distressed areas have been only partly successful. And, if only as war-time measures, could not the milk in schools scheme be extended by education, by lowering the price, by giving the third of a pint twice a day? And could not skimmed milk be supplied free to pensioners and the unemployed?

I am, Sir, yours faithfully,

Hendon. J. N. MORRIS.

GERMAN MEASLES

SIR,—The prevailing outbreak of German measles prompts me to draw attention to the presence of a minor sign which first attracted my attention whilst physician to the London Fever Hospital some years ago. It is well known that in German measles stomatitis is absent or insignificant, and most authorities agree that Koplik's spots are never seen. A slight vesiculation of the palate, and possibly in some cases a buccal enanthema, like to but preceding the skin rash, are recognised. The sign to which I invite attention is the presence, on one or both sides, of a vivid injection of the orifice of the duct of the parotid gland (Stenson's duct). This is most evident on the first or second day of the rash. In all probability it is not pathognomonic, but its presence does lead one to speculate on the path of elimination of the (hypothetical) virus of this disease.

Another point perhaps worth mention is the facial erythema which follows the rash. This may be likened to a mild sunburn and often is very striking.

I am, Sir, yours faithfully,

Regent's Park, N.W.1. CHARLES R. BOX.

SIR,—Recently I have been admitting R.A.F. and Army personnel to my isolation hospital with the trivial complaint of German measles, and have resented doing so when my nursing staff and myself have been strained with cases of cerebrospinal meningitis, diphtheria and scarlet fever. Is it not possible to take the opportunity of this war to cut out a lot of dead wood in our so-called control of infectious diseases? Thousands of people during the past six weeks have been really ill with pharyngitis, laryngitis and septic tonsillitis, all of an infectious nature, but not officially recognised as such, and yet

1. *Lancet*, 1937, 1, 1064.

because German measles is on the official list a demand for hospitalisation is made on the grounds that the patient cannot be isolated elsewhere. Why isolate at all anywhere, seeing that possible transmission of the infection to others has occurred before the disease is recognisable in the patient, and that the disease itself is a comparatively minor disability?

The root of the trouble is that the Board of Education lumps this disease with all the other notifiable or non-notifiable infectious diseases and expects school medical officers to try and prevent its spreading among children. Several years ago I stopped excluding from school contacts of cases of German measles and chickenpox because (*a*) it was a waste of time and a loss of education, and (*b*) in my opinion it is better to have these diseases, if one can, in childhood rather than in adult life when both may be more uncomfortable or career-disturbing. How many parents whose children at preparatory schools are quarantined as contacts because of one of the minor infectious illnesses would not be grateful if an altered lead were given as a result of official pronouncement.

I am, Sir, yours faithfully,

A. D. SYMONS,
Medical Officer of Health, Shrewsbury.

VISITING IN CHILDREN'S WARDS

SIR,—As a practising child psychiatrist I feel I must add my voice to Dr. Bowlby's protest in your issue of Feb. 10. I, too, cannot agree with your leading article of Jan. 27 wherein you imply the absence of any but the most trivial and temporary of emotional disturbances in hospitalised children. My experience in child guidance clinics has led me also to take notice of the deleterious effects of hospitalisation on character development, especially in very young children. I have collected quite a number of cases (their publication has unfortunately been postponed owing to the outbreak of the war) which show in no uncertain manner the emotional upheaval consequent on the removal to, and more or less prolonged stay in hospital; with the production in some of the children at any rate of symptoms as varied as night terrors, ties, stammering and all kinds of behaviour disorders. In one case I investigated a stay of six months in hospital; with the production in some of the children anxiety state.

Quite contrary to the opinion expressed in your editorial I have evidence to show that children feel the absence of visitors far more than do adults. True, the child is not always able or willing to express his distress openly, as can the more articulate adult, but it is often in the absence of overt and easily recognised emotional disturbances that the danger lies. Repression is a very common defence in children against unpalatable feelings, and that this happens more often than has up to now been recognised is shown by the appearance after the return home of "symptoms" which so clearly turn out to be substitute formations for the repressed feelings.

I would urge with Dr. Bowlby a more careful ascertainment of the facts before embarking on the suppression of visiting in children's wards, so lightly assumed by your editorial to be devoid of danger.

I am, Sir, yours faithfully,

Leeds. H. EDELSTON.

RHEUMATISM VACCINE

SIR,—Medical officers in the three Services who desire to treat rheumatic personnel by the standard method of the Charterhouse Rheumatism Clinic can obtain supplies of the vaccine used at that institution free of charge on application by letter to the secretary. When writing it would be of assistance if medical officers were to mention their previous experience, if any, with our methods.

I am, Sir, yours faithfully,

Charterhouse Rheumatism Clinic, 56-60, Weymouth Street, W.1. ELLERT FORBES, Secretary.

TESTS FOR DRUNKENNESS

SIR,—The determination of the percentage of alcohol in the blood seems to lead nowhere if different percentages are accompanied by different effects on the central nervous system (see *Lancet*, Feb. 17, p. 322). It is not the state of the blood but the state of the brain that is important. Electro-encephalography here steps into the breach. According to Baudouin and Fischgold (*Biol. méd.* **29**, 639), alcohol at first increases the amplitude of the β waves and decreases that of the α waves; as unconsciousness supervenes, waves of high frequency and large amplitude disappear, giving place to a slow rhythm (about 5 a second). Their article is illustrated with tracings for three successive stages: (1) drunk and unresponsive; (2) sober but silent; and (3) apparently normal.

I am, Sir, yours faithfully,

SILENUS.

Appointments

BANNERMAN, R. G., M.D. Edin., temporary assistant pathologist at the Central Middlesex County Hospital.
BOLT, EVELYN H., M.B. Durh., assistant medical officer in the school medical services, South Shields.
CANE, L. H., M.B. Camb., medical officer, Tanganyika Territory.
COATES, J. C., M.B. Leeds, F.R.C.S., resident surgical officer, Royal Infirmary, Bradford.
DAVIDSON, WINIFRED M., M.B. Edin., resident medical officer at the Canwell Hall Babies Hospital, Birmingham.
DICKSON, A. M., M.B. Manc., resident surgical officer at the Royal Manchester Children's Hospital.
ELLIOTT, R. W., M.B. Sheff., D.P.H., assistant medical officer for Surrey.
GEORGE, T. C. R., M.R.C.S., D.P.H., district medical officer of health for Breconshire.
LEGGETT, H. A., M.D. Lond., D.P.H., assistant medical officer for Surrey.
MAIR, JAMES, M.B. Glasg., D.P.H., temporary assistant school medical officer and assistant medical officer of health for Coventry.
PARKIN, THOMAS, M.B. Edin., clinical assistant in the dermatology department, Royal Infirmary, Sheffield.
ROBERTSON, ANNE C., M.B. Belf., D.P.H., D.R.C.O.G., assistant medical officer in the maternity and child-welfare services, Ealing.
ROBERTSON, FRANK, M.B. Durh., medical registrar at the Royal Victoria Infirmary, Newcastle-on-Tyne.
SHAW, G. H., M.R.C.S., D.P.H., assistant medical officer for Berkshire.
SLEGGS, GORDON, M.Ch. Orth. Lpool, resident surgical officer at the Accident and Surgical Hospital, Barry.
SMITHSON, W. E., M.R.C.S., assistant resident medical officer at Holgate Municipal Hospital, Middlesbrough.
STRATTON, FRED, M.B. Manc., D.P.H., blood-transfusion officer at the Royal Infirmary, Manchester.
THOMPSON, A. R. F., L.R.C.P., B.D.S., radiologist in the dental department of Guy's Hospital, London.
WOOLF, ERNEST, M.R.C.S., resident assistant medical officer in the tuberculosis section of the public health department, Birmingham.
WYSE, R. W., M.B. Glasg., F.R.C.S.E., resident surgical officer at the Salford Royal Hospital.

Medical referee under the Workmen's Compensation Act, 1925: Mr. PETER MCEWAN for the county-court districts of Bradford, Keighley, Otley and Skipton.

Examining surgeons under the Factories Act, 1937: Dr. W. W. STOTHERS (Shettleston and Tollcross district, Lanarkshire); Dr. T. R. MURRAY (Balfron district, Stirlingshire); Dr. P. C. MCKINLAY (Beverley district, Yorkshire); and Dr. A. S. DRUMMOND (Yarmouth, Isle of Wight district).

MALE NURSES AND ARMY EXEMPTION.—At a meeting of the Royal College of Nursing on Feb. 15, matrons were advised to apply for exemption on behalf of male nurses who were called up during their training on the grounds that they were only partly trained and in the middle of their course of studies, and that nursing was a "reserved occupation."

Medical News

University of Oxford

Last week (p. 345) we briefly announced the appointment of Dr. E. G. T. Liddell, F.R.S., to the Waynflete chair of physiology.

Dr. Liddell, who is 45, was educated at Harrow, Trinity College, Oxford, and St. Thomas's Hospital. In 1918 he obtained a first class in the final honours school of physiology and was appointed to a senior demyship at Magdalen College. In the same year he became an assistant in the serum department of the Lister Institute. In 1921 he graduated B.M. and was elected to a fellowship at Trinity College. Three years later he obtained his M.D. In 1929 he assisted in the preparation of the second edition of Sherrington's Mammalian Physiology. He has also published original work on the physiology of the central nervous system in recognition of which he was last year elected to the fellowship of the Royal Society. At present Dr. Liddell holds the post of university lecturer in physiology.

Medical Service with the Forces

At a meeting of the Central Medical War Committee held on Wednesday it was agreed that medical practitioners who are within the age-limits of current proclamations should now be made liable for compulsory medical service with the Armed Forces—this compulsion to be applied through the machinery of the committee. The resolution has been communicated to the Ministries of Health and National Service.

Central Council for District Nursing in London

The annual meeting of the council will be held at the County Hall, Westminster Bridge, S.E.1, at 2.30 P.M. on Thursday, Feb. 29.

Nuffield Appointments

Sir Farquhar Buzzard has been appointed one of the trustees of the Nuffield Fund for Hospitals. Prof. H. J. Seddon has been appointed a member of the Nuffield Committee for the Advancement of Medicine.

Royal College of Physicians of Edinburgh

Kirk Duncanson fellowships for medical research have been awarded to Dr. Helen Russell and Dr. R. A. Miller.

Grants to the Universities

Sir John Simon announced in the House of Commons on Feb. 20, that the Government would shortly ask the House to approve estimates maintaining the provision made for universities and colleges at the present level—that is, £2,149,000.

Censorship of Scientific Journals

Sir William Bragg, P.R.S., at the request of the Press and Censorship bureau, has formed a scientific panel to assist in arranging the censorship of papers in scientific journals. The following have agreed to serve on the panel: Prof. C. R. Harington (biochemistry), Prof. V. H. Blackman (botany and agriculture), Prof. A. C. Egerton (chemistry), Dr. H. L. Guy (engineering sciences), Prof. P. G. H. Boswell (geology), Prof. S. Chapman (mathematics), Dr. C. H. Desch (metallurgy), Dr. C. G. Darwin (physics), Prof. A. V. Hill (physiology), Prof. F. C. Bartlett (psychology), Prof. W. W. C. Topley (bacteriology and pathology), Prof. M. Greenwood (statistics) and Sir Guy Marshall (zoology).

Vacancies

Aberdeen Royal Infirmary.—Registrar to orthopædic dept., £200.
Barking Corporation.—Res. M.O. for Council's Upney (Maternity) Hosp., £350.
Bedford County Hosp.—H.S., at rate of £155. Also cas. O., at rate of £150.
Birmingham, Romsley Hill Sanatorium.—Res. asst. M.O., at rate of £240.
Bristol Eye Hosp.—Jun. H.S., at rate of £100.
Cambridge, Addenbrooke's Hosp.—Cas. O. and supernumerary house officer, at rate of £130. Also res. anæsthetist and emergency officer, at rate of £130.
Charing Cross Hosp., W.C.2.—Second surg. reg., £150.
Doncaster Royal Infirmary.—H.S. to ear, nose, and throat and ophth. depts. and res. anæsthetist, at rate of £150.
East Ham Memorial Hosp., Shrewsbury Road, E.7.—H.P., at rate of £150.
Grimsby and District Hosp.—Res. orthopædic officer, at rate of £275.
Harrogate Royal Bath Hosp.—Res. M.O., at rate of £200.
Haywards Heath, King Edward VII Memorial, Eliot Hosp.—Hon. physician.
Ipswich, East Suffolk and Ipswich Hosp.—H.P., H.S.'s, and cas. O., each at rate of £144.
King Edward Memorial Hosp., Ealing, W.13.—Cas. O. and deputy Res. M.O., at rate of £225.
Lancashire County Council.—Jun. asst. M.O. for Wrightington Hosp., £300.
Larbert, Royal Scottish National Institution.—Asst. M.O., £350.
Leicester City General Hosp.—Deputy med. supt. and surgeon, £500.
Leicester Royal Infirmary.—Anæsthetist and H.P., at rate of £150 and £125 respectively. Also jun. cas. O., at rate of £100.
Liverpool, St. Paul's Eye Hosp.—H.S., at rate of £145.
Liverpool, Bootle General Hosp.—Res. M.O., at rate of £130.
London County Council.—Temp. asst. M.O.'s (Class I), each £350. Also temp. asst. M.O. (Class II), £250.
Middlesex County Council.—Res. cas. M.O. for Central Middlesex County Hosp., at rate of £350.
Newcastle upon Tyne, Royal Victoria Infirmary.—Res. M.O., £350.
Newport, Mon., Royal Gwent Hosp.—Sen. H.S., at rate of £200.
Penshurst, Cassel Hosp., Swaylands.—Locum tenens, 8 guineas.
Reading, Royal Berkshire Hosp.—Asst. surg. reg.
Rotherham General Hosp.—H.P., £150.
Ryde, I.W., Royal Isle of Wight County Hosp.—H.P., £130.
Salford Royal Hosp.—Three H.S.'s and cas. H.S., each at rate of £125.
Salop County Council.—Jun. res. M.O. at County Council Hosp., £150.
Sheffield Children's Hosp.—H.P., at rate of £100.
Shrewsbury, Royal Salop Infirmary.—Two res. H.S.'s, each at rate of £160.
South London Hosp., Clapham Common, S.W.4.—H.S., at rate of £100.
Staffordshire County Council.—Temp. asst. M.O., £600.
Stockport County Borough.—Res. asst. M.O., £350.
Stockport Infirmary.—Asst. res. surg. O. and cas. O., £175.
Stoke-on-Trent, North Staffordshire Royal Infirmary.—H.S., at rate of £150.
Stourbridge, Corbett Hosp.—Res. surg. O., £200.
Sunderland Royal Infirmary.—H.S., at rate of £120.
Warrington, Liverpool Sanatorium, Delamere Forest.—Asst. to med. supt., £225.
Winchester City.—M.O.H., £850.
Woolwich Memorial Hosp., Shooters Hill, S.E.18.—Jun. res. M.O., at rate of £133 6s. 8d.

The Chief Inspector of Factories announces vacancies for examining surgeons at Aberystwyth, Cardigan; Leek, Stafford; Grantown-on-Spey, Morayshire.

Medical Diary

Week beginning February 26

ROYAL COLLEGE OF PHYSICIANS, Pall Mall East, S.W.1.

TUESDAY and THURSDAY—2.30 P.M., Dr. W. D. W. Brooks: The Pathology and Treatment of Pulmonary Tuberculosis. (Goulstonian lectures.)

ROYAL SOCIETY OF MEDICINE, 1, Wimpole Street, W.1.

MONDAY

Odontology: 2.30 P.M., Mr. J. Thewlis: X-ray Examination of Enamel.

TUESDAY

Surgery and Medicine: 4.30 P.M., Prof. J. Paterson Ross, Mr. A. Dickson Wright, and Dr. Geoffrey Bourne: Surgical Treatment of Angina Pectoris.

FRIDAY

Otology: 10 A.M., Mr. A. J. Wright: Menière's disease. Sir Arthur Hurst, Dr. Emanuel Miller, and Mr. Sydney Scott: Functional Deafness. Dr. George Riddoch will also speak.

Laryngology: 2.30 P.M., Sir Lancelot Barrington-Ward, Dr. J. D. Kershaw, Dr. T. S. Rodgers, and Miss D. J. Collier: Indications for Removal of Tonsils and of Adenoids in Children. Flight Lieut. J. E. G. McGibbon: Cinematography Through the Bronchoscope.

Anæsthetics: 2.30 P.M., Dr. C. W. Morris, Captain H. K. Ashworth, and Dr. G. S. W. Organe: Choice of Anæsthetic in Teaching Hospitals.

EDINBURGH ROYAL INFIRMARY.

THURSDAY—4.30 P.M., Prof. J. R. Learmonth: The Surgery of War Wounds of Blood-vessels. (Honyman-Gillespie lecture.)

TAVISTOCK CLINIC, Westfield College, Kidderpore Avenue, N.W.3.

MONDAY—3 P.M., Dr. Emanuel Miller: Type Diagnosis. 4.15 P.M., Dr. Miller: Ethical Aspects of Psychotherapy.

BRITISH POSTGRADUATE MEDICAL SCHOOL, Ducane Road, W.12.

WEDNESDAY, 11.30 A.M., clinico-pathological conference (medical). 2 P.M., Mr. E. J. King, Ph.D.: Tests of Liver Function. 2.30 P.M., Dr. C. M. Hinds Howell: ward clinic. 3 P.M., clinico-pathological conference (surgical).

THURSDAY—2 P.M., Dr. Duncan White: radiological conference.

FRIDAY—2 P.M., clinico-pathological conference (gynæcological).

DAILY—10 A.M.–4 P.M., medical clinics, surgical clinics and operations, obstetrical and gynæcological clinics and operations. 1.30–2 P.M., post-mortem demonstration.

FELLOWSHIP OF MEDICINE AND POSTGRADUATE MEDICAL ASSOCIATION, 1, Wimpole Street, W.1.

MONDAY to SATURDAY—Brompton Hospital, S.W.3. M.R.C.P. courses in chest diseases.

NOTES, COMMENTS AND ABSTRACTS

THE PUBLIC HEALTH IN WAR-TIME

In his Chadwick lecture delivered on Feb. 20, Sir Arthur MacNalty pointed out that during the last war, apart from the pandemic of influenza in 1918–19, civilian health was good. The war period saw the beginnings of the services that have since done so much to improve the health of the community. School meals and the school medical service had begun in 1907, and the insurance medical service in 1912; tuberculosis schemes were being organised in 1913–14; and the maternity and child welfare and venereal diseases services were directly inspired by the war. These new measures met with the success that comes to pioneer efforts. It will be a much harder task in the present war to maintain the health services at the high level they have attained in the years of peace. The responsibilities of the health authorities are vastly increased in this war, for the risks of air-raids have made necessary the emergency medical service and the evacuation scheme. Sir Arthur MacNalty outlined the organisation of emergency hospitals, with their personnel and equipment, and he drew attention to the comprehensive laboratory service set up by the Medical Research Council throughout the country. It was not surprising, he said, that in the evacuation of children there were some misfits. The root-cause of the low standard of cleanliness and conduct lies in the homes of the children. Slum clearance has not yet gone far enough, and the lessons taught in the school and clinic sometimes fail to reach the parents. The Government's evacuation scheme should not be condemned because events have not taken their expected course. Who can say that it has not played a great part in our freedom from air-raids, and it has at least accustomed us to the problems of evacuation, which may have to be faced again at a moment's notice.

Certain diseases must be the object of special concern in this war. The rise in tuberculosis during the last war was mainly due to contact infection, overcrowding and lowered resistance through prolonged physical and mental strain. A rise is therefore most likely to occur again, and there is therefore every reason to keep the tuberculosis services going at full strength. In recent years knowledge of the treatment of venereal disease—the camp-follower of war—has greatly increased, and the new chemotherapy may eventually be as effective in preventing the spread of gonorrhœa as the arsphenamine compounds have been in syphilis. War-time movement of population provides increased opportunities for the spread of infectious diseases. Cerebrospinal fever is especially associated with war conditions, and it is noteworthy that during the last quarter of 1939 the weekly notifications have almost all exceeded the corresponding ones for 1938. In the prevention of the disease full coöperation between military and civilian sanitary authorities is all-important. Fresh air, free ventilation in sleeping huts and billets, adequate space between beds, and gargling with a simple disinfectant all help in prevention. Chemotherapy combined with lumbar puncture offers a good hope of reducing the fatality of the disease, but early treatment without waiting for bacteriological confirmation is essential. In conclusion Sir Arthur MacNalty said that disease may seriously deplete the fighting resources of a nation, and it follows that measures for maintaining the national health bulk largely in the war effort of the country.

THE SUPPLY OF RADIUM

It is now nearly a year since the Cancer Act became law, and it is recognised that additional radium will be needed to implement the extended and improved provisions which it made for the diagnosis and treatment of cancer.

In the tenth annual report of the National Radium Trust and Radium Commission the arrangements which had been made with the El-Dorado Gold Mines in Canada to loan radium, including containers, on purchase or return terms are set out. The Minister of Health has now agreed to lend money to the trust on certain conditions for the purchase of radium, and an option has been secured from the Canadian company to buy up to a maximum of 10 milligrammes of radium a year at a price of £4500 per gramme. At present 17·7595 grammes already on loan are being purchased by monthly instalments, and the radium hired to centres amounts to 41·225 grammes. These large quantities of radium must also be made available for patients in localities where distance makes attendance at established national centres difficult. The needs of the major local authorities for facilities to treat cancer in their areas must be met. Though this type of expansion will be limited. The commission have always held that the more highly specialised forms of treatment must be restricted to a comparatively small number of hospitals. It is said in the report that it is difficult to get work of a consistently high standard and to make rapid progress in radiotherapy except in large centres well equipped and satisfactorily staffed. They therefore propose a scheme which is described as regional rather than central whereby the smaller hospitals must combine to form a large unit or enter into a close association with a large centre. This scheme, together with the suggestions for the collection of clinical records on a wider basis, is so promising that it is highly desirable that the commission should be in a position to initiate them even under war conditions. The urgent need for this work is shown by the table giving the number of patients treated. Over 8000 new patients had radium therapy in 1937, and from 1930 to 1937 51,274 patients were treated. This forms an important contribution to cancer therapy but is still far from equal to the demands of the cancer patient.

TRANSILLUMINATION OF THE BREAST

Results checked by microscopy are reported by Dr. J. Benzadón (*Acción med.* 1939, **9**, 776) in the diagnosis of diseases of the breast by transillumination, or diaphanoscopy, a method first published in 1929 by Max Cutler (*Surg. Gynec. Obstet.* 1929, **48**, 721), who gave the results obtained in 74 cases. Benzadón used Cutler's 700 kW water-cooled lamp in a dark room. The normal breast (if there is one) is examined first and the diseased breast compared with it. The normal breast produces a circular transparent area of uniform rosy tint, with a few dark sinuous lines, representing veins, and a central opacity surrounded by a lighter area due to the nipple and areola, the depth of opacity depending on the amount of pigment present. The periphery of the gland is usually more transparent than the centre because of the central distribution of glandular as opposed to fatty tissue. From this it follows that large (fatty) breasts are more transparent than small breasts. Congestion and breast-feeding diminish the transparency, while old age increases it. Cystic and fatty tumours are more transparent than normal mammary tissue and have regular outlines. Adenomata, adenofibromata, galactoceles, and abscesses cause not very opaque patches. When there is a sanious discharge from the nipple dark spots are visible, close to the nipple, in one or more blood-filled ampullæ of the lactiferous tubules. According to the earlier workers the two conditions which produce inky-black patches are hæmatoma and malignant tumour; a patch due to hæmatoma has its centre darker than its periphery and will become lighter with the absorption of the clot, whereas a patch due to cancer is of uniform opacity and darkens with the passage of time. Both kinds of patch have irregular outlines. The value of transillumination in the early discovery of malignant change in subacute or chronic mastitis or other conditions would be obvious if the classical shadows were a reliable criterion; but in some cases of clinically well-established cancer Benzadón was unable to

detect these shadows, and, on the other hand, he found them in some cases which proved on section to be not neoplasm but galactoceles or subacute mastitis. Far greater claims have been made by Ritvo, Butler, and O'Neil (*J. Amer. med. Ass.* 1935, **105**, 343; see also *Lancet*, 1935, **2**, 776) for the diagnostic use of X rays in mammary tumours, and it is difficult to see where the advantage of transillumination lies except when radiography is not available.

MEDICAL SERVICES IN BULGARIA

THERE are now about 2900 doctors in practice in Bulgaria, a ratio of 1 doctor to every 2200 persons; in 1924 the ratio was 1 to 5090.[1] But in the last few years there has been a fall in new entrants to the profession because lack of foreign currency has added to the expense of study abroad and the University of Sofia can only admit a limited number of students. Most of the practitioners, some 2200, reside in the towns; consequently doctors are few and far between in rural areas. There are, however, still some 1240 "feldschers"—persons with an elementary medical training—most of whom act as assistants in hospitals, but some of whom practise independently in villages, although the schools for feldschers were closed twenty years ago. The 1100 dental surgeons in Bulgaria have all studied abroad, usually in Austria and Germany, and 90 per cent. of these practise in the towns. Midwives number 900, a ratio of 1 to every 3530 women, and are about equally distributed in public and private practice. In 1938 the state sent 382 state-paid midwives into the villages, for there are only about 50 private midwives practising outside the towns. Hospital nurses are trained in the Sofia Red Cross Hospital, the course lasting three years, and there are now some 400 nurses in training.

BRITISH EPIDIASCOPES

WE have received part 3 of Messrs. Newton and Co.'s catalogue of optical projection apparatus. The episcopes and epidiascopes they offer should amply meet the requirements of schools and universities for routine lectures. Air cooling is relied on for the most part, but arrangements can be made for water cooling in the larger models where the source of illumination is necessarily more powerful and therefore hotter. The range of projection of each type of apparatus is stated and intending purchasers should bear in mind that it is wise to buy an apparatus with a larger range than is required, for no apparatus is at its best at the limit of its performance. Messrs. Newton have introduced a handy electric pointer which should commend itself to lecturers, and a simple microscopic attachment has been provided, though the application of this fitting would probably take too long to be conveniently carried out during a lecture.

The success of the German firms in this field has depended mainly, of course, on their large resources but also on their readiness to satisfy customers' individual requirements. The latter point is one which British manufacturers will do well to study.

SUDAN MEDICAL SERVICE

DURING 1938 exceptionally heavy and badly spaced rains caused a considerable rise in the incidence of malaria in the Sudan. Khartoum itself was surrounded by a vast grass-grown lake from which waves of mosquitoes were carried into the city by the wind. The annual report of the Sudan medical service describes new methods of malaria control which were introduced when ordinary measures broke down. The high rainfall and an increase in flies also brought with them a large increase in deaths from dysenteric disorders. Pneumonia appears to cause about one-quarter of all deaths in this region and this obviously offers a field for investigation. Outbreaks of smallpox were controlled by vaccination with lymph produced in the country at the Stack medical research laboratories. These laboratories carried out research on a number of diseases including kala-azar, relapsing fever, yellow fever and malaria, and performed more than twenty thousand routine examinations. Another interesting feature is the report of the Kitchener School of Medicine which had twenty-seven students under training. This school now gives a five-year course which is recognised by the conjoint board of the Royal Colleges in England as counting towards a conjoint qualification.[1]

NEW PREPARATIONS

CLINESTROL is the distinguishing name applied to the stilbœstrol preparations manufactured by Glaxo Laboratories Ltd., Greenford, Middlesex. Clinestrol ampoules present the ester, stilbœstrol dipropionate, for injection and are available in two strengths: 1 mg. in 1 c.cm. and 5 mg. in 1 c.cm.; the ester is prepared for injection because it prolongs the effect of stilbœstrol and enables a continuous œstrogenic effect to be obtained by giving parenteral doses at intervals of several days. For oral administration clinestrol tablets are available in three strengths: 0·5 mg., 1 mg., and 5 mg. of stilbœstrol.

PHYSOLACTIN is an aqueous solution of active lactogenic principles obtained from fresh pituitary glands and presented in concentrated form. It is a product of Glaxo Laboratories Ltd., Greenford, Middlesex. Each batch is biologically standardised so that 1 c.cm. contains not less than 60 Riddle-Bates units of prolactin, and it is subjected to clinical tests before release. Physolactin is issued in 15 c.cm. rubber-capped bottles and is intended for the stimulation of milk secretion in appropriate cases, particularly when the secretion of milk is not satisfactory by the sixth or seventh day.

MERSAGEL is a new fungicide jelly consisting of phenyl mercuric acetate in a water-soluble jelly base. It is intended for the treatment of mycotic skin diseases, such as tinea of the groin, feet, and axillæ. This product also has a general antiseptic action which will overcome secondary infections, and it may be used as an antiseptic application for the ordinary bacterial wound infections. It is packed in 1½ oz. tubes and 16-oz. jars, and is prepared by Glaxo Laboratories Ltd., Greenford, Middlesex.

Births, Marriages and Deaths

BIRTHS

BYWORTH.—On Feb. 14, at Stanmore, the wife of Dr. H. A. Byworth—a daughter.

CATHIE.—On Feb. 15, at Gomshall, Surrey, the wife of Dr. A. B. Cathie—a daughter.

EPPS.—On Feb. 14, at Bournemouth, the wife of Lieutenant L. C. de R. Epps, R.A.M.C.—a daughter.

HODGE.—On Feb. 18, at Crewkerne, Somerset, the wife of Dr. R. Hodge—a son.

HUGHES.—On Feb. 15, in London, the wife of Dr. William Hughes, Nigeria—a son.

LANYON.—On Feb. 11, at Falmouth, Joan (née Tilley), wife of Dr. C. B. Lanyon—a daughter.

MCLAUGHLIN.—On Feb. 15, at Sheffield, the wife of Dr. A. I. G. McLaughlin—a daughter.

SMYTH.—On Feb. 17, at 82, Harley Street, W.1, to Esther, wife of Mr. Michael J. Smyth, M.Ch., F.R.C.S.—a son.

WALLACE.—On Feb. 16, at Woking, the wife of Dr. H. J. Wallace—a daughter.

MARRIAGES

MACPHERSON—BERCHIER.—On Feb. 16, James Duncan Primrose Macpherson, M.R.C.S., Captain R.A.M.C., to Margaret Alexia Berchier.

DEATHS

BYLES.—On Feb. 17, in London, James Beuzeville Byles, M.B. Lond.

CHESSER.—On Feb. 16, in London, Elizabeth Sloan Chesser, M.D. Glasg.

GIDDINGS.—On Feb. 14, at Beckenham Hospital, George Thomas Giddings, M.D. Durh., M.R.C.S.

HARRATT.—On Feb. 15, Thomas Tomkinson Harratt, M.R.C.S., medical officer of health to the borough of Rye.

MACCORMAC.—On Feb. 17, at Henley-on-Thames, William Leonard Maccormac, M.D. Manc., F.R.C.S.E., late medical superintendent to St. James' Hospital, Balham.

POLLOCK.—On Feb. 12, at Weybridge, Aubrey Keatinge Halliday Pollock, M.R.C.S., D.P.H., late chief medical officer to the East India Railway.

SHEPHERD.—On Feb. 18, Henry Brooks Shepherd, M.R.C.S., of Southampton.

WELLS.—On Feb. 13, at Fulham, Alfred George Wells, M.R.C.S.

1. See *Lancet*, 1939, **2**, 381, 387.

Just Issued

HAUSER'S DISEASES of the FOOT

A New Book

In his *new* book Dr. Hauser points out the underlying causes of foot disorders—not just as a surer guide in diagnosis and treatment but as a means to instituting effective preventive measures. He tells how to care for the feet, how to guard against strain and incipient abnormal tendencies from the time of birth through childhood, adolescence and maturity. He gives in full detail the *technique of manipulative treatments, physical therapy, functional exercise, use of heat, X-ray, special strapping and bandaging.* He describes and illustrates the proper kinds of shoes that should be worn and guides you specifically in prescribing corrective shoes and prostheses. And in addition to all this he very clearly shows the interrelationship of diseases of the feet with diseases elsewhere in the body.

By EMIL D. W. HAUSER, M.D., Assistant Professor of Bone and Joint Surgery, Northwestern University Medical School. *With a Foreword* by SUMNER L. KOCH, M.D. Octavo of 471 pages, with 263 illustrations on 172 figures, 5 in colours. Cloth, 27s. 6d. net.

MEDICINE

Beckman's Treatment—By HARRY BECKMAN, M.D., Professor of Pharmacology, Marquette University. Octavo of 787 pages. Cloth, 45s. **Third Edition.**

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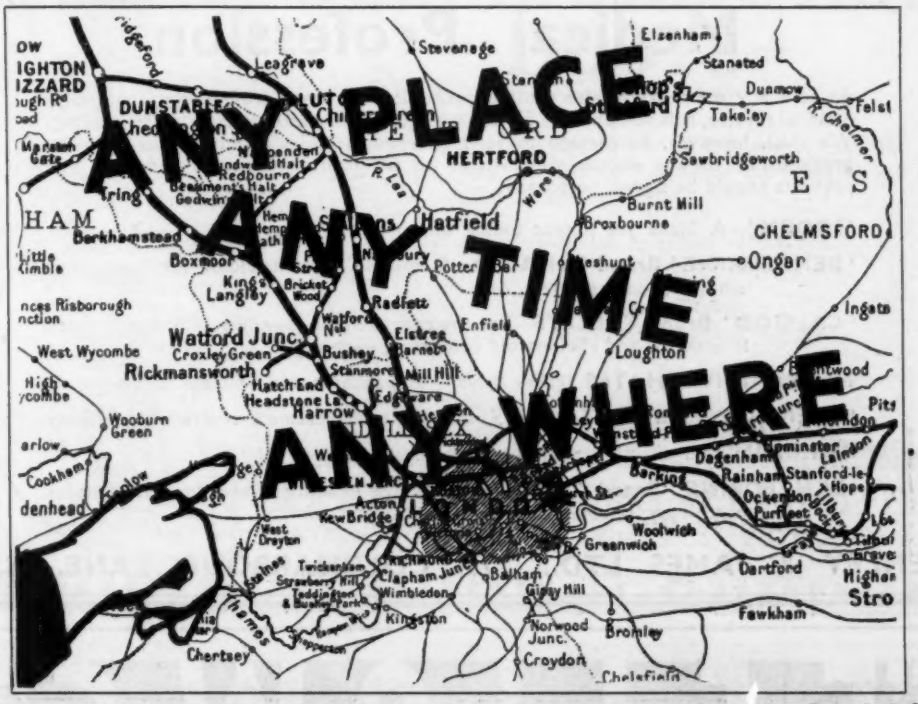

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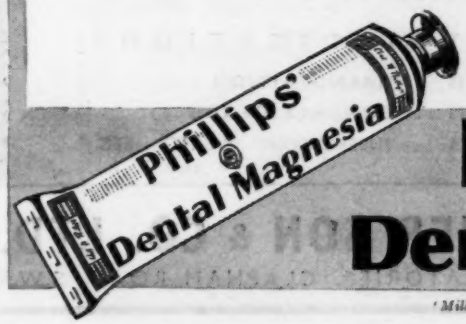

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Vide THE PRESCRIBER, Jan., 1938

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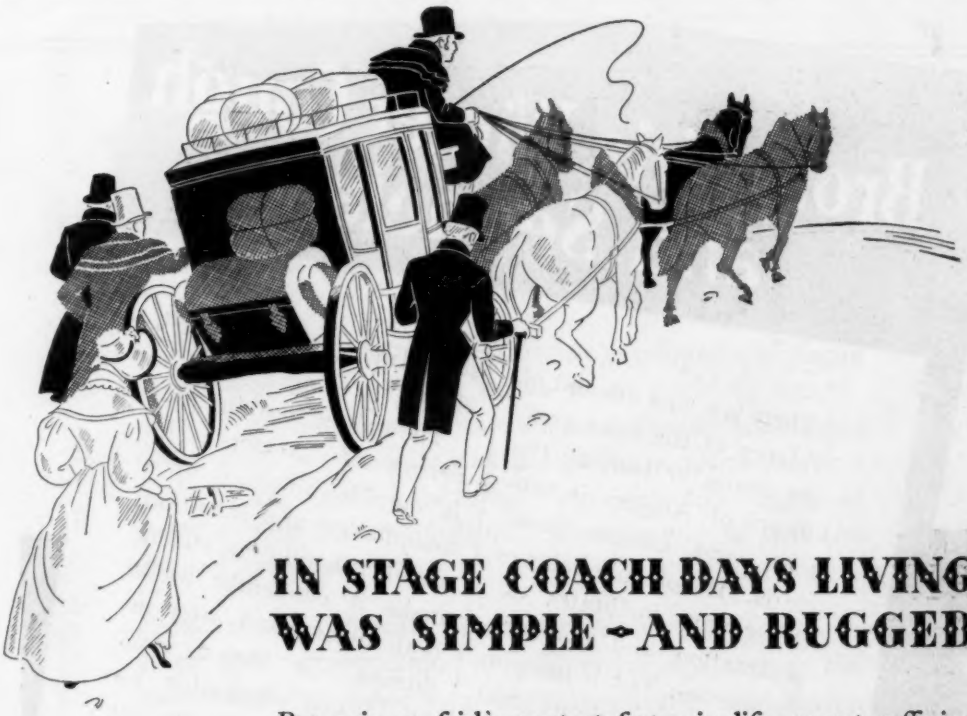

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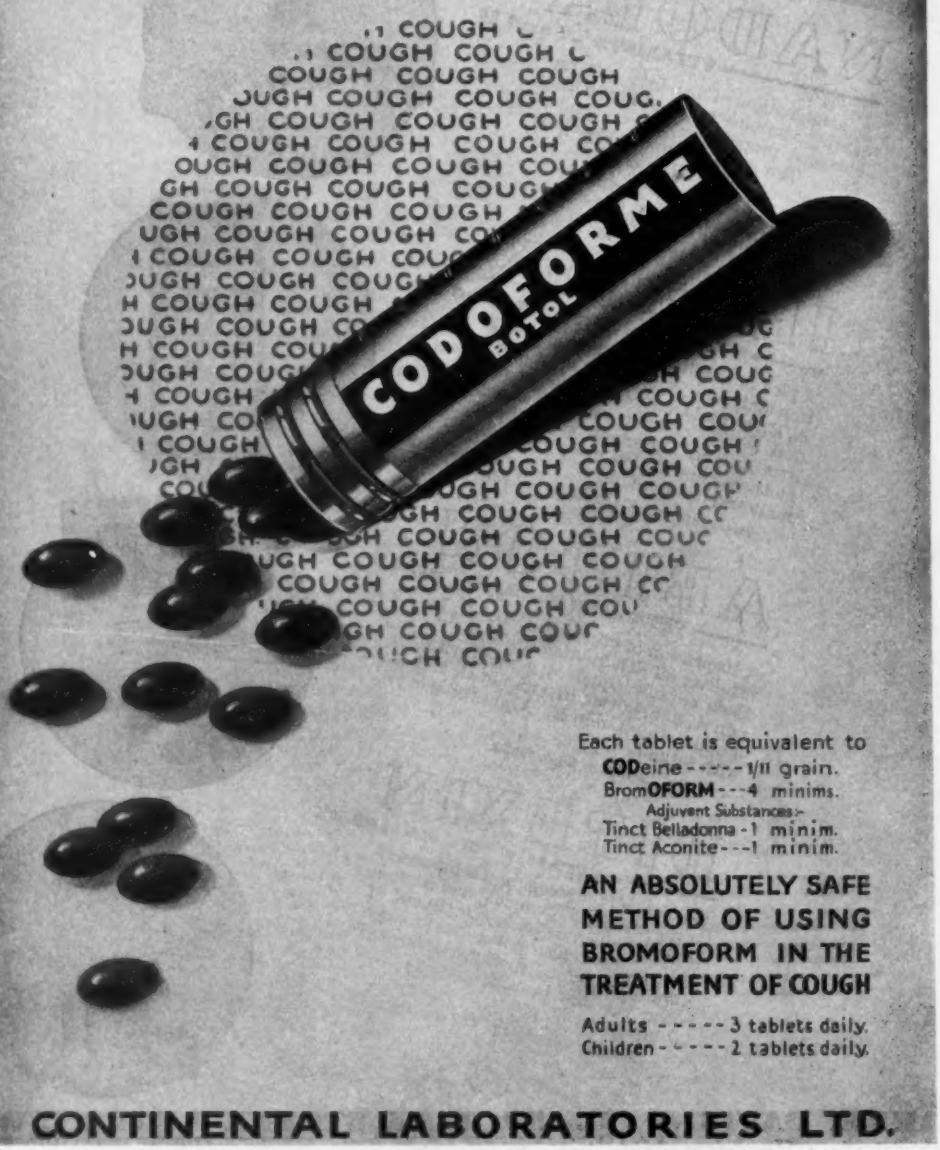

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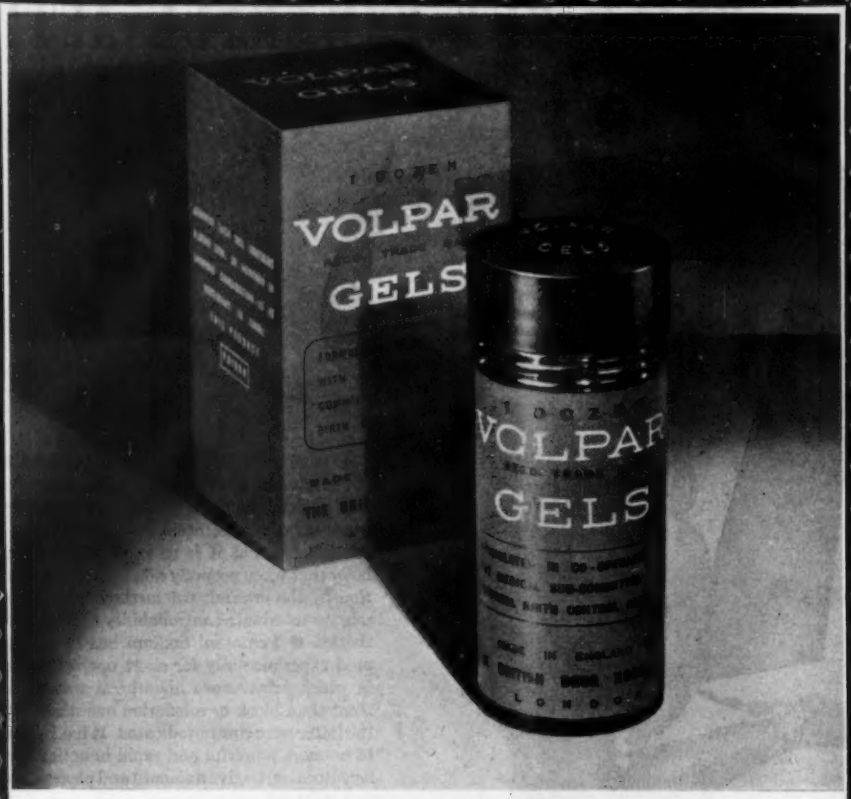

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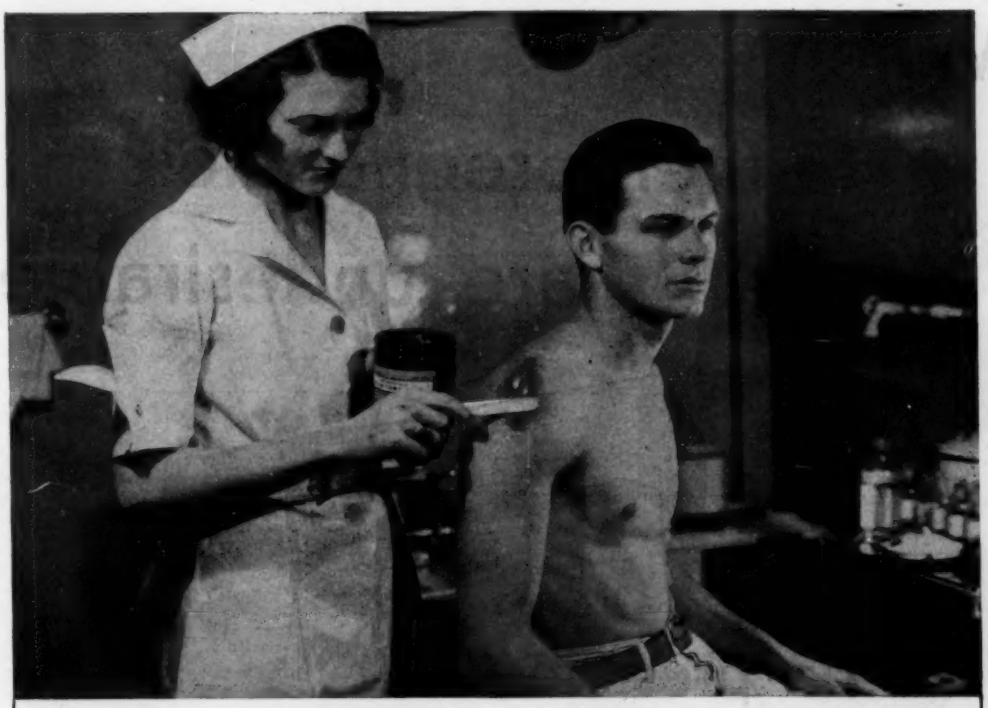

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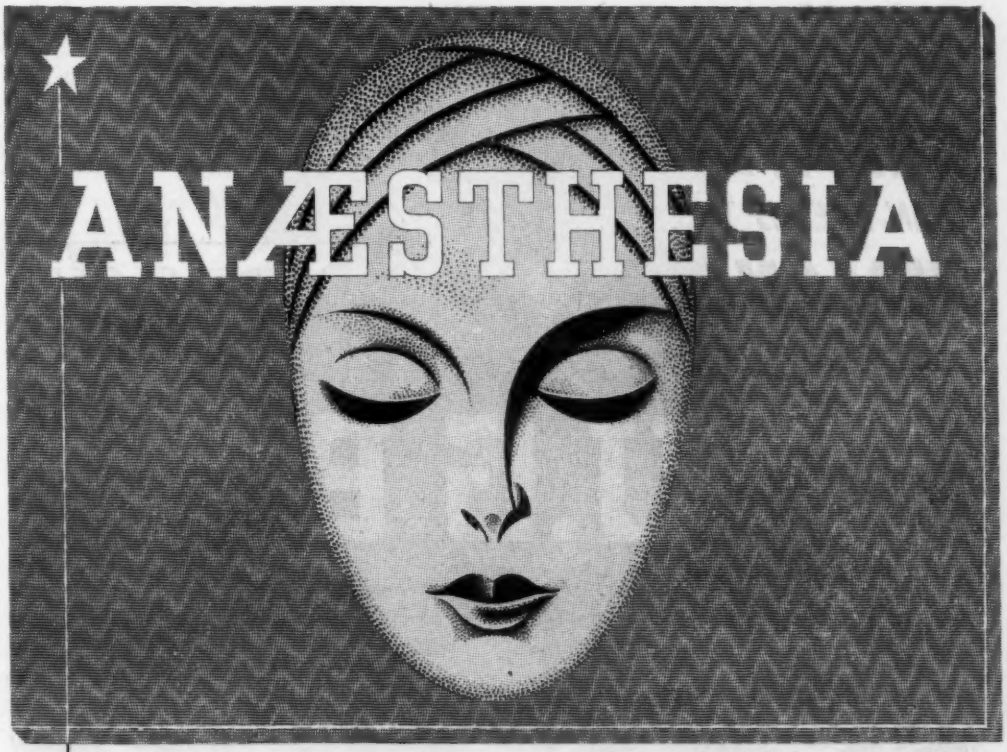

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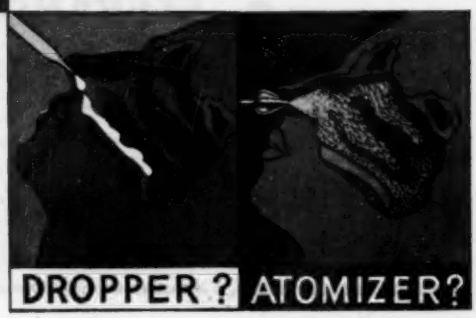

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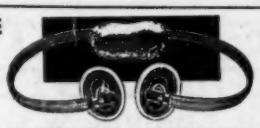

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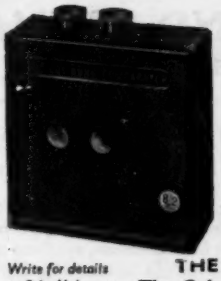

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For terms and further particulars apply to the Medical Superintendent, who may be seen in Manchester BY APPOINTMENT. *Telephone: Gatley* 2231 (3 lines).

THE ROYAL EARLSWOOD INSTITUTION

FOR MENTAL DEFECTIVES, REDHILL, SURREY.

(Formerly the EARLSWOOD ASYLUM.) PATRON: H.M. THE KING.

FOR THOSE REQUIRING CONTROL with EXPERT SUPERVISION and needing SPECIAL TRAINING in useful occupations, *SCHOOLS, FARMING, and various TRADE WORKSHOPS.*

Inclusive fees from £110 p.a. *THOSE UNABLE TO PAY FULL FEES* admitted by votes of subscribers with part payment towards cost.

RECREATIONS: Outdoor games. MALE STAFF BAND for Concerts, Dancing, etc.

Apply: THE MEDICAL SUPERINTENDENT, Earlswood, Redhill, Surrey. *'Phone:* REDHILL 344.

COURT HALL, KENTON, near EXETER

FOR THE TREATMENT OF EIGHT LADIES, VOLUNTARY, TEMPORARY AND CERTIFIED PATIENTS

CLIFFDEN, TEIGNMOUTH

FOR EARLY AND CONVALESCENT CASES Recreational Therapies are held daily by skilled Leaders

The house stands high with spacious balconies and extensive views of the South Devon Coast. Beautiful garden. Own Dairy in 25 acres. Private road to beach.

There is also a charming house, **EBWORTHY, MANATON, DARTMOOR,** situated in 20 acres, 1100 ft. up for bracing moorland air.

Resident Physicians—BERTHA M. MULES, M.D., B.S. ANNE S. MULES, M.R.C.S., L.R.C.P.

Telephones—STARCROSS 59 and TEIGNMOUTH 289

PORTSMOUTH CITY MENTAL HOSPITAL

Accommodation is provided for the reception of PRIVATE PATIENTS of both sexes in three detached Villas, which are healthily and pleasantly situated in extensive grounds with sea views.

Charges from 3 guineas weekly, including all necessaries except clothing.—Apply to the Medical Superintendent and Resident Physician, THOMAS BEATON, O.B.E., M.D., F.R.C.P.

CITY OF LONDON MENTAL HOSPITAL

Near DARTFORD, KENT.

Ladies and Gentlemen received for treatment under certificates, and without certificates as either VOLUNTARY or TEMPORARY PATIENTS, at a weekly fee of £2 9s., and upwards.

FENSTANTON, at "FIVE DIAMONDS," Chalfont St. Giles, Bucks.

A Private Home for the Care and Treatment of a limited number of LADIES with Mental and Nervous Disorders. Certified, Voluntary, and Temporary Patients received. Mansion with 12 acres of grounds. (*See Medical Directory*, p. 2312.) Apply Resident Physician. Telephone: Little Chalfont 2046. Station: Chalfont and Latimer.

BOURNEMOUTH HYDRO

Ultra-Violet, Infra-Red, and Ultra-short-wave Diathermy Treatments. Pistany, Pyretic, Nauheim, and Medicated Baths. Remedial Exercises; Massage; and Inhalation Therapy. Plombières and Vichy Douches.

Resident Physician. Certificated Staff. Telephone: 341

THE RETREAT, YORK

The Pioneer Hospital for the humane treatment of those suffering from Nervous and Mental Disorders, opened 1796.

This Hospital, administered by a Committee of the Society of Friends, combines what is best in the newer methods of investigation and treatment of nervous and mental illness with a sympathetic and friendly atmosphere.

The hospital, of 200 beds, admitted last year 110 patients, of whom 79 entered on a voluntary basis. It cannot be too widely known that much curative work is accomplished in modern mental hospitals today, and it is not generally appreciated that the recovery rate compares very favourably with that of General Hospitals.

For information and terms of admission, apply to

THE PHYSICIAN SUPERINTENDENT

Dr. Arthur Pool.

Littleton Hall, Brentwood, Essex.

(18 miles from London.) 400 feet above sea.

A PRIVATE HOME for LADIES situated in large grounds. Voluntary, temporary, or certified cases received. Apply to Dr. HAYNES. Tel.: Brentwood 45.

ST. CHRISTOPHER'S NURSERY COLLEGE

TUNBRIDGE WELLS - - KENT

is situated in a safety zone

Healthy children are received from 1 week to 8 years of age. Fully trained NURSING and TEACHING Staff. Beautiful grounds—very good health record. Highly recommended by doctors and parents all over the world. Excellent air-raid shelters and other precautions taken. Nervous and delicate infants and children are also accepted and receive individual care and attention. The quiet situation of the College among fields and woods is especially suitable.

Further particulars on application

Director: Miss M. A. PAYNE, S.R.N., A.R.San.I.

Tel. No.: T. W. 595.

UNIVERSITY EXAMINATION POSTAL INSTITUTION

Founded in 1882

17, RED LION SQUARE, LONDON, W.C.1

EXPERT PREPARATION FOR ALL MEDICAL EXAMINATIONS

POSTAL COURSES : PRIVATE TUITION
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MEDICAL PROSPECTUS (47 pp.)

CONTENTS: The method and the cost of entering the Medical Profession. *Particulars of all Medical Examinations*, Postal Courses, and Oral Classes. Suggestions for the Higher Medical and Surgical Examinations. Suggestions for the Special Diploma Examinations. Refresher Courses. Openings for Women. Hints for writing theses.

Medical Prospectus gratis along with list of Tutors, &c., on application to the Principal, 17, Red Lion-square, London, W.C.1. (Telephone: HOLborn 6313.)

London County Council.

Applications invited from Medical Practitioners of at least one year's standing for undermentioned positions. Experience in a resident appointment in a general hospital for at least six months desirable. Married quarters are not available.

TEMPORARY ASSISTANT MEDICAL OFFICER (Class II).—Salary £250 a year, together with board, lodging, and washing.

(*a*) KING GEORGE V SANATORIUM, NEAR GODALMING, SURREY.—Experience in treatment of pulmonary tuberculosis desirable.

*(*b*) HEATHERWOOD HOSPITAL, ASCOT, BERKS.—For orthopædic conditions and surgical tuberculosis in children.

* Women candidates only.

Application forms obtainable (stamped addressed foolscap envelope necessary) from Medical Officer of Health, Staff Division, 2, County Hall, S.E.1, returnable by 22nd January.

Canvassing disqualifies.

Royal Free Hospital,

Gray's Inn-road, London, W.C.1.

Applications are invited for the post of HONORARY ASSISTANT SURGEON to the ORTHOPÆDIC DEPARTMENT. Candidates must be Fellows of the Royal College of Surgeons of England.

Applications, accompanied by copies of three recent testimonials, should be sent to the undersigned on or before the 13th January, 1940.

RICHARD T. BARTLEY, Secretary.

Royal Free Hospital,
Gray's Inn-road, London, W.C.1.

Applications are invited for the post of HONORARY ASSISTANT SURGEON to the OPHTHALMIC DEPARTMENT. Candidates must be Fellows of the Royal College of Surgeons of England.

Applications, accompanied by copies of three recent testimonials, should be sent to the undersigned on or before the 13th January, 1940.

RICHARD T. BARTLEY, Secretary.

Hampstead General Hospital,
Hampstead, N.W.3.

Applications are invited from registered Medical Women for the resident appointment of CASUALTY MEDICAL OFFICER for six months, vacant 1st February next at the OUT-PATIENT DEPARTMENT, BATHAM-STREET, CAMDEN TOWN. Salary £100 per annum.

Applications, on the prescribed form, with copies of three testimonials, to be returned to the Secretary by 20th January.

Golden Square Throat, Nose and Ear
HOSPITAL, near Piccadilly Circus, W.1.

CLINICAL ASSISTANTS.

There are vacancies for Clinical Assistants to attend at the ollowing times :—

Mondays, 10 A.M. and 2 P.M.
Fridays, 2 P.M.

The posts, which are honorary, afford good opportunities for obtaining extended knowledge of the specialty, as the duties consist of assisting the surgeons in the treatment of patients.

Applications, which may be for periods of three, six, or twelve months, should be sent to the undersigned immediately.

JOHN H. YOUNG, Secretary-Superintendent.

Guy's Hospital.

Applications are invited for the appointment of RADIOLOGIST in the DENTAL DEPARTMENT. The appointment is a temporary one and will be for the period ending June 19th, 1940. Honorarium at the rate of £300 per annum, plus £20 fee for a course of six lectures.

Applications, giving the names of two referees, should be submitted, by January 22nd if possible, to the Superintendent, Guy's Hospital, London Bridge, S.E.1.

St. John's Hospital, Lewisham, S.E.13.

RESIDENT CASUALTY OFFICER and a HOUSE SURGEON (Males). Appointments tenable for six months from 1st February, 1940. Salary £100 per annum.

Applications, with copies of testimonials, as soon as possible to the Secretary-Superintendent.

Hospital for Consumption and Diseases
OF THE CHEST, Brompton, S.W.3.

The Committee of Management invite applications for the post of RESIDENT SURGICAL OFFICER. Candidates must have held a resident hospital appointment for not less than six months. Salary £150 per annum, with board and residence, and an additional £25 per annum for services in connexion with paying patients. The appointment is for twelve months, commencing 1st February, 1940.

Applications, with copies of testimonials, must reach the undersigned not later than Monday, 15th January, 1940.

F. G. ROUVRAY, Secretary.

Brompton, January, 1940.

Temporary Assistant Pathologist
(Non-resident) required by Middlesex County Council at CENTRAL MIDDLESEX COUNTY HOSPITAL, Acton-lane, Willesden, N.W.10. Must be registered Medical Practitioners with extensive post-graduate experience in pathological work, especially biochemistry, bacteriology, and serology. Salary £650 per annum. Appointment, likely to continue for duration of war, is terminable by one month's notice. Whole-time official duties, which may include teaching students. Salary is inclusive, and any fees received must be paid to County Council.

Applications to undersigned by 20th January, with copies of not more than three recent testimonials. Canvassing, direct or indirect, disqualifies.

C. W. RADCLIFFE, "B.3," Clerk of the County Council.

Guildhall, Westminster, S.W.1.

Keighley and District Victoria Hospital,
YORKSHIRE, WEST RIDING.
(140 Beds—Two Residents.)

APPOINTMENT OF RESIDENT MEDICAL OFFICERS.

Applications are invited from registered Medical Practitioners (Female) for the following posts :—

FIRST RESIDENT MEDICAL OFFICER. Salary £160 per annum, to commence 12th February, 1940.

SECOND RESIDENT MEDICAL OFFICER. Salary £120 per annum, to commence 1st March, 1940.

Proof of registration to be furnished before appointment. Full residential emoluments. Term, six months renewable.

Applications, with particulars of age, experience, and nationality, together with copies of two recent testimonials, to be sent to the undersigned not later than 20th January, 1940.

J. YOUNG, Secretary-Superintendent.

Evelina Hospital for Sick Children,
Southwark, S.E.1.

Applications are invited from duly qualified candidates for the combined post of OUT-PATIENT OFFICER-HOUSE SURGEON (Male) for six months from 1st February, 1940. Salary at the rate of £120 per annum, with board and residence.

Applications, stating age, experience, and qualifications, accompanied by copies of three testimonials, must reach the undersigned not later than 17th January.

W. H. SIDNELL, House Governor.

Royal Berkshire Hospital, Reading.
(421 Beds.)

Applications are invited for the following resident appointments, which fall vacant on 1st February, 1940 :—

One HOUSE SURGEON (Male).
One HOUSE SURGEON to the SPECIAL DEPARTMENTS (EYE, EAR, NOSE, AND THROAT) (Male).

The appointments are for six months, and candidates must be fully qualified and registered within the past six months. Remuneration at the rate of £150 per annum, with board, residence, and laundry.

Applications, stating age and experience, with copies of testimonials, to be sent to the undersigned on or before Saturday, 13th January, 1940.

H. E. RYAN, Secretary and House Governor.

The Royal Hospital, Wolverhampton.
(Incorporated under Charter.)
(300 Beds.)

Applications are invited for the post of RESIDENT SURGICAL OFFICER. Salary £200 per annum. Experience of major surgery essential. The successful candidate must hold one of the higher qualifications in Surgery.

Applications, with copies of testimonials, to be forwarded to the undersigned forthwith.

W. H. HARPER, House Governor.

Wolverhampton, 27th December, 1939.

City of Coventry.

MUNICIPAL GENERAL HOSPITAL.

The Public Health Committee invite applications from duly registered Male Medical Practitioners in connexion with two vacancies for ASSISTANT RESIDENT MEDICAL OFFICERS at the above Hospital (324 Beds). The Hospital includes medical, surgical, obstetric, and children's wards.

Each appointment will be for a period of one year. The salary will be at the rate of £250 per annum for the first six months and at the rate of £300 per annum for the second six months, with board, residence, and laundry. The officers appointed will be required to pay to the Corporation any fees received in connexion with their official work.

Applications, accompanied by copies of three recent testimonials, must reach the undersigned not later than first post on January 18th, 1940.

A. MASSEY, Medical Officer of Health.

The Council House, Coventry, 1st January, 1940.

City of Liverpool.

PATHOLOGIST.

Applications are invited for the appointment of full-time Pathologist for the SMITHDOWN-ROAD HOSPITAL, LIVERPOOL, 15 (1220 Beds), at an inclusive salary of £750 per annum, rising by three biennial increments of £50 and one of £37 10s. to £937 10s. per annum. Any fees received in connexion with the appointment to be handed over to the City Council.

Candidates must be fully qualified and registered, must have specialised in pathology and biochemistry, and have had considerable experience in a recognised pathological department.

The gentleman appointed will be responsible for supervising the work of the laboratories and will be required to coöperate generally with the medical staffs so far as this particular service is concerned.

The appointment will be made in accordance with the Standing Orders of the City Council, and will be determinable by three calendar months' notice on either side.

Canvassing members of the City Council, either directly or indirectly, will be regarded as a disqualification.

Forms of application can be obtained from the Medical Officer of Health, Hospitals Department, Gordon House, Belmont-grove, Liverpool, 6.

Applications, endorsed "Pathologist," to be forwarded to the undersigned not later than 10 A.M. on Tuesday, 16th January, 1940.

W. H. BAINES, Town Clerk.

Municipal Buildings, Dale-street, Liverpool, 2, January, 1940.

Saint Mary's Hospitals, Whitworth
PARK, MANCHESTER, 13.

Three HOUSE SURGEONS required for the Whitworth Park Hospital, in the Gynæcological, Maternity, and Children's Departments respectively, each for a period of six months from 1st March, 1940. Salary at the rate of £50 per annum, with board and residence.

Applications, with copies of three testimonials, to be sent to the undersigned on or before the 20th January, 1940.

A. R. WISE, Superintendent and Secretary.

County of Brecon.

APPOINTMENT OF DISTRICT MEDICAL OFFICER OF HEALTH.

Applications are invited for the appointment of District Medical Officer of Health for the combined area of the Borough of Brecon, the Urban Districts of Builth Wells, Hay, and Llanwrtyd, and the Rural Districts of Brecknock, Builth, and Hay (360,216 acres, population about 25,000).

Applicants must be registered in the Medical Register as the holder of a Diploma in Sanitary Science, Public Health, or State Medicine, and must not be over forty-five years of age at the date of application.

The person appointed will be required to perform all the duties imposed on a Medical Officer of Health by Statute and by any Orders, Regulations, or directions from time to time made or given by the Minister of Health and by any bye-laws or instructions of the Local Authorities concerned in the appointment applicable to the office, and to devote the whole of his time to the duties of his office.

In addition he will be required to undertake the organisation of the Medical Services of the above districts forming part of the Air-raid Precautions Scheme for the County under the general directions of the County Medical Officer of Health and the County Co-ordinating Officer, and he may be required to undertake a certain amount of work in connexion with the medical services provided by the County Council.

Salary £800 per annum, together with an allowance of £100 per annum for travelling, subsistence, provision of office accommodation, and clerical assistance.

The appointment is subject to the approval of the Minister of Health and is pensionable under the provisions of the Local Government Superannuation Act, 1937.

The successful candidate must be prepared to reside within the combined area, and must agree to give three calendar months' notice in writing before resigning his office or to forfeit the sum of £100 as liquidated damages.

Applications, giving age, medical qualifications, and previous experience (if any), together with copies of three recent testimonials, must be received by me not later than 20th January, 1940.

ALBERT JOLLY, Clerk to the Breconshire County Council.
County Hall, Brecon, 27th December, 1939.

Borough of Neath.

APPOINTMENT OF MEDICAL OFFICER OF HEALTH.

Applications are invited from qualified persons for the position of Medical Officer of Health. The Council is the Maternity and Child Welfare Authority and the duties will include this service and also the Schools Medical Service in respect of the Elementary Schools in the Borough.

The person to be appointed who will be required to reside in the Borough must be a duly qualified Medical Practitioner, and must be registered in the Medical Register as the holder of a Diploma in Sanitary Science, Public Health, or State Medicine, and also hold the qualifications presented in Article 7 of the Local Government (Qualifications of Medical Officers and Health Visitors) Regulations, 1930. He must not engage in private practice and is to devote his whole time to the duties of his office, including attendance at the Maternity and Child Welfare and Antenatal Clinics.

The appointment will be subject to the provisions of Section 110 of the Local Government Act, 1933, the Sanitary Officers (Outside London) Regulations, 1935, and the Local Government Superannuation Act, 1937.

The person selected for the appointment will be required to pass a medical examination, and subject to passing this will be required to commence duty on 1st May, 1940.

The salary will be £800 per annum, rising, subject to satisfactory service, by annual increments of £25 to a maximum of £900 per annum. A car allowance of £50 per annum will be paid.

The commencing salary will be apportioned thus:—

	£
Medical Officer of Health	320
Maternity and Child Welfare	160
Schools Medical Officer	320
	£800

and the increasing salary will be divided proportionately.

Applications, in envelope marked "Medical Officer of Health," stating age, present position, past appointments, qualifications, and experience, accompanied by copies of not more than three recent testimonials, must be received by the undersigned not later than 5th February, 1940.

No form of application will be provided.

ALFRED E. I. CURTIS, Town Clerk.

29th December, 1939.

Manchester Northern Hospital

(General Hospital. 113 Beds),
Cheetham Hill-road, MANCHESTER, 3.

Applications are invited for the posts of RESIDENT HOUSE PHYSICIAN and RESIDENT HOUSE SURGEON. Salary £100 per annum, with board and residence.

The appointments are for six months from mid-February, 1940 (successful candidates are eligible for reappointment for a further six months).

Applications, stating age, qualifications, and nationality, with copies of not less than three recent testimonials, should be sent to Mr. JAMES C. DANIELS, Secretary, 38, Barton-arcade, Manchester, 3, by 20th January.

Manchester Royal Infirmary.

BLOOD TRANSFUSION OFFICER.

The Board of Management of the Manchester Royal Infirmary invite applications for the above post.

Applicants must be on the Medical Register, have held a hospital appointment, and had experience in blood transfusion technique.

The Officer's duties will include examination of blood donors, grouping of patients, collection and storage of blood, and maintenance of the Blood Bank in the Infirmary. He will be expected to carry out research on problems connected with blood transfusion, and to work in conjunction with the Civilian Hospital Emergency Blood Transfusion Service, for the area as may be required by the Board.

The appointment, which is full time, is for twelve months in the first place, subject to the provisions of the bye-laws of the Manchester Royal Infirmary.

Salary at the rate of £300 per annum if non-resident, or £200 per annum if resident.

Applications, stating age and qualifications with references, should be sent to the General Superintendent, M.R.I., not later than 9 A.M. on January 17th, 1940.

By order.
F. J. CABLE, General Superintendent and Secretary.

Manchester Royal Infirmary.

POSTS VACANT.

2 HOUSE PHYSICIANS for 15th February, 1940.
2 HOUSE PHYSICIANS for 15th March, 1940.
4 HOUSE SURGEONS, General Surgical Units, for 15th February, 1940.
1 HOUSE SURGEON, Aural, Gynæcological, and Ophthalmic Departments, for 15th February, 1940.
1 HOUSE SURGEON, Neuro-surgical Unit, for 15th February, 1940.
1 HOUSE SURGEON, Orthopædic Unit, for 15th February, 1940.

The Board of Management of the Manchester Royal Infirmary invite applications for the above appointments.

The appointments for the General Surgical Units are for nine months and the others for six months, subject to the provisions of the bye-laws as to notice, &c. Salaries at the rate of £50 per annum, with board, residence, and allowance for laundry.

Applicants must hold a medical and surgical qualification and be registered. They may apply for more than one of the above posts and if so must state the order of their preference.

Applications, stating age, qualifications, and experience, to be sent to the Chairman of the Medical Board not later than 17th January, 1940.

By order.
F. J. CABLE, General Superintendent and Secretary.
22nd December, 1939.

County Borough of Grimsby.

SCARTHO ROAD INFIRMARY.

Applications are invited for the post of RESIDENT MEDICAL OFFICER (Male, unmarried). There are 247 Beds, both medical and surgical. Candidates must be fully qualified and registered and considerable hospital experience in both branches is essential. Salary at the rate of £350 per annum, rising by annual increments of £25 to £450 per annum, plus board, residence, and laundry.

The appointment will be subject to one month's notice on either side and to the provisions of the Local Government Superannuation Act, 1937. The successful candidate will be required to pass a medical examination.

Forms of application and further particulars may be obtained from the Medical Officer of Health, St. James House, Bargate, Grimsby. Applications, endorsed "Resident Medical Officer," and accompanied by copies of three recent testimonials, should be sent to the Public Assistance Officer, Silver-street, Grimsby, not later than 17th January, 1940.

L. W. HEELER, Town Clerk.

Municipal Offices, Grimsby, 30th December, 1939.

Staffordshire County Council.

ASSISTANT MEDICAL OFFICER FOR MATERNITY AND CHILD WELFARE.

Applications are invited from fully qualified Medical Women for the post of whole-time ASSISTANT MEDICAL OFFICER for maternity and child welfare.

Candidates should have had at least three years' experience in the practice of their profession and special experience of practical midwifery and antenatal work subsequent to qualification. It is desirable that applicants should hold the Diploma of Public Health.

The salary will be at the rate of £600 per annum rising by annual increments of £50 to £800 per annum. The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and the statutory contributions to the Superannuation Fund under that Act will be deducted from the salary.

The successful candidate will be required to undergo a medical examination and produce a birth certificate. The appointment will be subject to three calendar months' notice on either side.

Forms of application may be obtained from the undersigned and should be returned by first post on the 11th January, 1940, together with copies of not more than three testimonials.

Candidates receiving no reply by the 31st January, 1940, may assume the vacancy filled.

H. L. UNDERWOOD, Clerk of the County Council.
County Buildings, Stafford, 21st December, 1939.

University of Glasgow.

HARRY STEWART HUTCHISON PRIZE, of the value of about £50, for the best writing or writings embodying original Research Work in a branch of Medical Science relating to Children. Open to Medical Graduates of all British, Home and Colonial Universities of not more than ten years' standing from their first graduation in Medicine.

Applications must be submitted to the Clerk of Senate, University of Glasgow, not later than 31st March, 1941. Each must be distinguished by two mottoes, and accompanied by a sealed letter bearing upon the outside the same mottoes, and containing a declaration subscribed by the author that the composition is entirely his own.

York County Hospital.

(204 Beds.)

Applications are invited for the post of HOUSE SURGEON to the EYE, EAR, NOSE, AND THROAT DEPARTMENT. Salary £150 per annum, with board, residence, and laundry.

Applications, stating age and previous experience, together with copies of not more than three recent testimonials, to be sent to the undersigned not later than 9 A.M. on Monday, 15th January, 1940.

J. R. MACKRILL, Secretary.

City of Manchester.

WITHINGTON HOSPITAL. (1165 Beds.)
(Recognised under the regulations for the F.R.C.S.)

The Public Health Committee invites applications from registered Medical Practitioners for the post of RESIDENT ASSISTANT MEDICAL OFFICER at the above-named Hospital.

The salary for the appointment is £200 per annum, with board, residence, and laundry in addition, subject to the Manchester Corporation conditions of service.

The appointment will be made in the first instance for a period of six months, renewable for a further six months, but not renewable thereafter.

Full information and forms of application may be obtained from the Medical Officer of Health, Hospitals Administration Section, Box 399, Town Hall, Manchester, 2, and applications for the post must be received by him not later than 20th January, 1940.

R. H. ADCOCK, Town Clerk.

Town Hall, Manchester, 30th December, 1939.

County Borough of Birkenhead.

ASSISTANT SCHOOL MEDICAL OFFICER AND ASSISTANT MEDICAL OFFICER OF HEALTH.

Applications are invited for the position of Assistant School Medical Officer and Assistant Medical Officer of Health. The salary scale for the position will be £500 per annum, rising by annual increments of £25 to a maximum of £700.

In fixing the commencing salary within the scale regard will be paid to previous recognised service.

The duties will include the inspection and treatment of school-children and maternity and child welfare work.

Applicants must be duly qualified Medical Practitioners with experience, and must hold the Diploma of Public Health.

The person appointed will be required to pass a medical examination and to reside within the Borough.

Canvassing, either directly or indirectly, will be regarded as a disqualification.

Particulars of the appointment and form of application may be obtained from Dr. D. Morley Mathieson, Medical Officer of Health, 9, Hamilton-square, Birkenhead, and applications endorsed "Assistant Medical Officer" must be delivered not later than 24th January, 1940, to—

E. W. TAME, Town Clerk.

Town Hall, Birkenhead.

Children's Hospital, Sunderland.

(70 Beds.)

HOUSE SURGEON (Female) required for six months from 1st February, 1940, and HOUSE PHYSICIAN (Female) for six months from 12th February. Salary £120 per annum, with board, residence, laundry, &c.

Applications, stating age and qualifications, and accompanied by testimonials, to be sent to the undersigned not later than 17th January.

M. J. HUNTLEY, House Governor and Secretary.

City of Birmingham.

MATERNITY AND CHILD WELFARE DEPARTMENT.

CANWELL HALL BABIES' HOSPITAL.
(84 Beds.)

A Woman RESIDENT MEDICAL OFFICER is required for a period of six months, duties to commence on January 30th.

Applicants should have had previous experience as a resident house physician, preferably in a Children's Hospital.

Salary £250 per annum, with board and laundry.

Applications, endorsed "Resident Medical Officer," and accompanied by copies of three recent testimonials, to be made on a form obtainable from the Medical Officer of Health, Council House, Birmingham, 3, and returned to him on or before January 13th, 1940.

General Hospital, Nottingham.

(389 Beds.)

ORTHOPÆDIC AND FRACTURE DEPARTMENT.

A HOUSE SURGEON (Male) is required for the above Department. The appointment is for six months with salary at the rate of £150 a year, with board, residence, and laundry. Experience in the treatment of fractures desirable.

Candidates are asked to send applications, stating age, qualifications, and experience, together with copies of testimonials, to the undersigned. Duties to commence as early as possible.

HENRY M. STANLEY, House Governor and Secretary.

Huddersfield Royal Infirmary.

(321 Beds.)

Male HOUSE SURGEON required to be attached to the ABNORMAL MATERNITY DEPARTMENT. Duties, which include the administration of anæsthetics, to commence on 1st February, 1940. Salary will be at the rate of £150 per annum, with board, residence, and laundry.

Appointment for six months, subject to renewal for a similar period, at the discretion of the Board of Management.

Applications, with copies of three recent testimonials, to be addressed to the undersigned immediately.

H. J. JOHNSON, General Superintendent and Secretary.

Royal National Hospital for RHEUMATIC DISEASES, BATH.

Applications are invited for the post of RESIDENT MEDICAL OFFICER which will become vacant about the 20th January, 1940.

Salary at the rate of £150 per annum, with board, residence, and laundry.

Applications, stating age, qualifications, and experience, together with copies of three testimonials, should be forwarded to the undersigned by the 15th January, 1940.

E. W. COX, Registrar.

21st December, 1939.

County Mental Hospital, Prestwich,

Near MANCHESTER.

ASSISTANT MEDICAL OFFICER required, commencing salary £550 per annum, rising to £600 after one year's service, plus £50 per annum on obtaining the D.P.M., less charges for board, furnished apartments, attendance, and laundry, valued at £150 per annum. Further increases according to promotion. Candidates must be unmarried and registered under the Medical Act. The appointment is subject to 3 per cent. reduction from salary under the Asylums Officers' Superannuation Act, 1909. Apply, stating age and full particulars, to the Medical Superintendent.

County Borough of Rochdale.

PUBLIC HEALTH DEPARTMENT.

The Health Committee invite applications from fully qualified registered Medical Practitioners (unmarried) for the appointment of JUNIOR RESIDENT MEDICAL OFFICER (Male) at the BIRCH HILL HOSPITAL (475 Beds—Medical, Surgical, Children, and Maternity).

The appointment includes certain services at the adjoining Public Assistance Institution and will be for a period of six months in the first instance, and for a further period of six months at the option of the Town Council, but will not be renewable thereafter.

Salary at the rate of £225 per annum, together with board, residence, and laundry.

Applications must be made on the prescribed form, which may be obtained on application to the Medical Officer of Health, and returned addressed to him at the Public Health Offices, Baillie-street, Rochdale, not later than Friday, the 12th January, 1940.

HARRY BANN, Town Clerk.

Town Hall, Rochdale, 18th December, 1939.

Resident Medical Officer required for

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21st December, 1939.

City of Birmingham.

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Town Hall, West Bromwich, 2nd January, 1940.

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TRIPHENYL CHLORO ETHYLENE

(substitute for the follicular hormone of the ovary).

Triphenyl chloro ethylene is issued for oral administration or for injection.

It is indicated in those conditions that respond to the follicular hormone, namely, the unpleasant symptoms of the menopause, atrophic vulvo-vaginitis, etc.

The outstanding merit of triphenyl chloro ethylene is that it is an effective oestrogen that has an extremely low toxicity.

(LANCET, 30th December, 1939, page 1362.)

Literature and samples (tablets and ampoules) will be sent to members of the medical profession on request.

IMPERIAL CHEMICAL INDUSTRIES LIMITED

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Latest Improvements

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The St. Bartholomew's Hospital Operation Table is now manufactured in five different models and thus supplies a range of modern operation tables embodying the latest ideas of well-known surgeons for carrying out surgical operations.

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Over 1075 of these tables are in use at home and abroad.

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Model A

In Trendelenburg position, 55° tilt, showing shoulder rests and instrument tray in position.

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'GLANOID' THYROID. WHEN PRESCRIBING THYROID SPECIFY THE 'GLANOID' BRAND TO ENSURE FULLY SATISFACTORY CLINICAL RESULTS.

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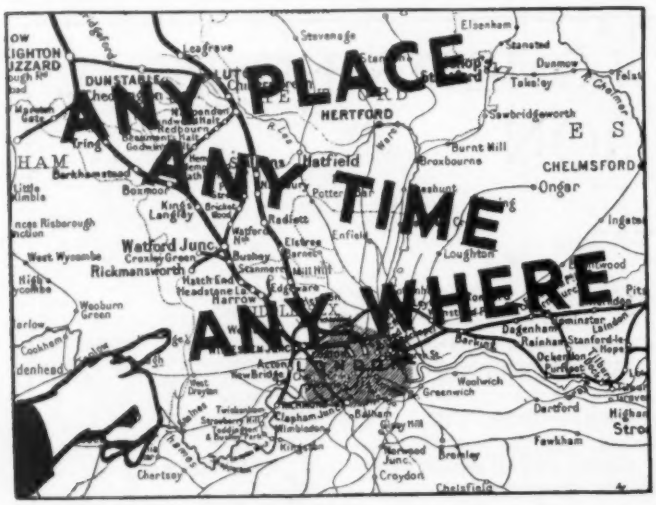

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Clinical experience confirms the value of 'Milk of Magnesia' as an antacid for routine use. Composed of a fine suspension of magnesium hydroxide, it is markedly effective in counteracting hyperacidity, while its emollient properties have a soothing effect on the inflamed gastric mucosa.

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'Milk of Magnesia' is the Registered Trade Mark of Phillips' preparation of magnesia.

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PEPSAC

Desiccated Stomach Substance

"I used maintenance dosages of desiccated hog's stomach (Pepsac) . . . I have never seen an uncomplicated case of Pernicious Anæmia in my series that has not responded to stomach therapy, nor have any of my patients relapsed while having this treatment during the last three and a half years." (Proc. Roy. Soc. Med., 1933, 26, 632.)

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The early administration of 'Pentnucleotide' in adequate dosage may mean the difference between success and failure in agranulocytosis. In discussing the handling of such cases, one observer states :—

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Further information will be sent to any interested physician

'PENTNUCLEOTIDE'

A mixture of the sodium salts of pentose nucleotides for intramuscular use

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FORMERLY KNOWN AS SPETON

Trade Mark **GYNOMIN** Brand

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ANTISEPTIC AND PROPHYLACTIC

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under an Order in respect of the Trade Mark 'SPETON' granted by the Comptroller-general of Patents, Designs, and Trade Marks under the Patents, Designs, Copyright and Trade Marks (Emergency) Act, 1939.

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contains, in addition, the autolysins of M. CATARRHALIS, PNEUMOCOCCI, B. PFEIFFER, B. INFLUENZÆ, and calmative and decongestive ingredients for all nasal affections.

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CAROVIT chlorophyll is especially valuable through restriction of its publicity to the medical profession.

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Cardiovascular and Respiratory Stimulant

Anacardone is a 25 per cent. solution of the synthetic analeptic, diethylnicotinamide; it should find a place in the emergency bag of every medical practitioner; it is efficient and, at the same time, of low toxicity. In an emergency when it may be difficult to determine the precise dose required but when it is vital that an adequate dose be given it is of importance to note that a large dose of Anacardone may be given, even by the intravenous route, without risk of producing toxic symptoms. Anacardone may be administered to patients of all ages—to the very young as well as to the aged.

Anacardone is available in ampoules of 2 c.c. and 5 c.c. and in bottles of 15 c.c. and 100 c.c., flavoured, for oral administration.

Literature on request

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YEAST EXTRACT

Marmite is rich in all the vitamins of the B group. It is particularly useful in the present emergency now that the food question is becoming difficult.

A good supply of the vitamin B complex in the everyday diet helps to prevent the onset of nervous and gastro-intestinal disorders and to guard against infection.

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Jars: 1-oz. 6d., 2-oz. 10d., 4-oz. 1/6, 8-oz. 2/6, 16-oz. 4/6. Special terms for packs for hospitals and welfare centres.

Relief of CHILBLAINS

COLLOIDAL CALCIUM with OSTELIN — **A potent parenteral attack**

Boxes of 6 and 12 × 1 cc. ampoules. 30 cc. bottles

Injected subcutaneously, Colloidal Calcium with Ostelin is almost a specific for chilblains. The normal procedure for treatment is to give from two to three injections of 1cc. at three-day intervals. The effects are striking. Irritation subsides almost immediately; swelling is reduced; circulation is restored; and healing quickly begins. In many cases these effects follow immediately after the first injection. Colloidal Calcium with Ostelin contains, in colloidal combination, 5,000 international units of vitamin D, and 0.5 mgm. of calcium in each 1cc. ampoule.

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A routine of three or more Ostocalcium tablets a day will protect most potential sufferers; while in cases of actual attacks, prompt administration of a heavier dosage may alleviate the condition. In severe cases Ostocalcium tablets fulfil the role of an adjunct to parenteral treatment, being of great value as a supplement to injections of Collodal Calcium with Ostelin. Each Ostocalcium tablet contains 7½ grs. of calcium sodium lactate and 2½ grs. of calcium phosphate with 500 international units of vitamin D.

OSTELIN LIQUID — vitamin D concentrate completely miscible with water.

GLAXO LABORATORIES LTD., GREENFORD, MIDDLESEX. BYRon 3434

Obiter Docta

IN PURSUIT OF A TITLE

'Puns,' wrote Sydney Smith, 'are in very bad repute.' For this reason the present writer feels bound to apologise for the disgraceful Latin pun which heads this page. Yet consider his dilemma. His friends, the proprietors of Bemax, having now decided to make his discursive articles a more or less permanent feature of the 'Lancet,' require some general label to serve both as indicator and warning to its distinguished readers. Suggestions for a pseudonym like 'Hippocrates junior' were brushed aside as presumption and several others were found to have been used already by abler pens. Finally, an ingenious gentleman, a graduate in the Arts, threw off the gem which has given us a local habitation and a name.

The Rev. Sydney Smith

It is to be hoped that the forbearing reader, whether or not he approves of Latin quips, will temper his judgment with mercy and from time to time turn his attention to *Obiter Docta* in this journal. In subsequent articles a wide variety of subjects will be considered from *Vitamin B and Exercise* to *Inebriety in Polynesia.*

In a sense, the whole series may be considered as a corrective to a philosophy of food which is summed up in Sydney Smith's famous epigram:

> 'Serenely full, the epicure would say,
> Fate cannot harm me, I have dined to-day.'

Modern medical knowledge shows that a diet which seems gastronomically perfect does not always fulfil all the requirements of physiology. Fate, indeed, may lay pathological pitfalls in the path of the gourmet who neglects what modern science has to teach about the value of the protective foods.

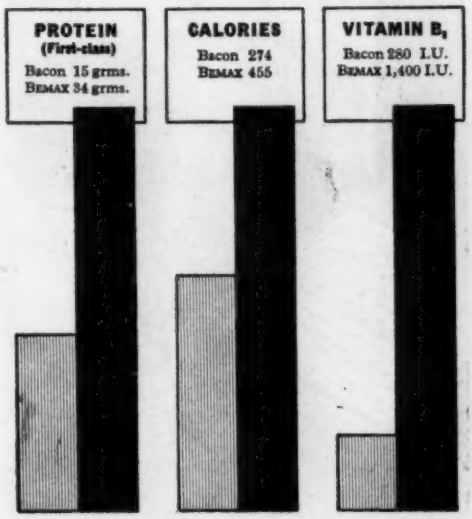
In this winter season a good supply of such foods, those containing vitamins and minerals, is particularly necessary; and in spite of the troubled times in which we live, Bemax remains the richest natural source of the Vitamin B complex, and furnishes also valuable supplies of Vitamins A and E. Besides these, it also contains as much as 34 per cent. of protein of *first-class biological value.* In this respect Bemax is unique among all foods of cereal origin. It is surely an advantage to Bemax that it can, besides providing that rich store of natural vitamins and minerals which have made it famous, at a pinch 'deputise' at the breakfast table for the humble rasher of bacon. Admittedly, Bemax neither looks like, smells like, nor tastes like bacon, but following the introduction of rationing we all have to be on our guard against a lowering of dietary standards in any respect. A medical adviser may therefore care to bear in mind that the addition of a tablespoonful of Bemax daily will, in the course of a week, more than treble the *first* class protein obtainable from the four-ounce ration of bacon.

BEMAX

and the Rationed Breakfast

Comparison between food value of Bacon and Bemax

Under rationing regulations, no individual may buy more than 4 ounces of bacon a week, which when cooked is reduced to about one-half the weight. The values of this ration in protein, calories and Vitamin B_1 are represented by the grey bars. Black bars indicate the amount of these constituents obtained from the normal weekly (unrationed) intake of Bemax (½-ounce per day).



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EXTRACT FROM CLINICAL REPORT:

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3. Mr. L, age 71. Considerable prostatic trouble. Under "Opocaps" all symptoms decreased.
4. I have also recommended "Opocaps" un-professionally to various men of my age (69) with benefit.

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℞ **"OPOCAPS" PROSTATIC (B.O.C.) gr. 3** (Oral)

Mitte - sig. 1 t.d.s., a.c. Supplied in boxes of 50 or 100 capsules.

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Pentamethylenetetrazol Solution containing 0.1% Sodium Phosphate for the SHOCK (CONVULSIVE) treatment of SCHIZOPHRENIA

Supplied in 3 c.c. and 5 c.c. ampoules; boxes of 3 and 6 ampoules; 25 c.c. rubber-capped vials; Phrenazol Powder, ½ oz. bottles.

Also supplied for use as a Cardiac and Respiratory Stimulant in 1 c.c. ampoules, in boxes of 3 and 6 ampoules; and for oral administration in ½ fl. oz. bottles.

Literature sent upon request.

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PARENTERAL LIVER EXTRACT WITH VITAMIN B_1

A highly concentrated and refined solution of Liver extract for the treatment of pernicious anæmia.

Dosage: For treatment of cases in relapse, at the time treatment is instituted, a dose of 0.5 cc. given on three successive days is usually indicated. After the initial injections on three successive days, a dose of 0.5 cc. at intervals of one to two weeks usually suffices to maintain an adequate red cell response.

Supplied: In packages containing three 0.5 cc. rubber stoppered ampoules; and in 5 cc. rubber stoppered ampoules.

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For the production of active immunity against epidemic influenza

True epidemic influenza is due to a filterable virus. An elementary body suspension is prepared from this virus in the B.D.H. bacteriological laboratories. Subcutaneous administration of 1 c.c. of this suspension should produce an immunity towards true influenza for approximately twelve months.

Recent outbreaks of true influenza having been confined to the late winter months, the immediate immunisation of those persons with a high individual susceptibility towards influenza is advocated.

Literature on request

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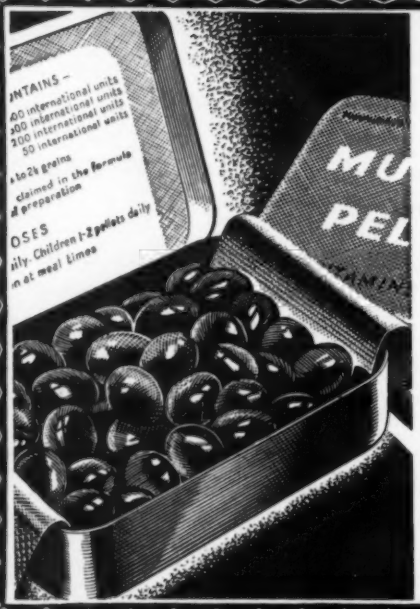

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(Vitamins A B_1 C and D)

Multivite is an ideal preparation by means of which deficiencies of Vitamins A B_1 C and D may be corrected.

Under combined conditions of war and winter, the following factors tend to intensify deficiencies of these vitamins :—

1 Restriction of supplies of butter, meat, fresh vegetables and *citrus* fruits

2 Increased demands following mental, emotional or physical stress or exertion

3 Deranged absorption as a result of alimentary irregularities

Multivite is suitable for adults and for children, who will eat the pellets as a sweetmeat

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When the periods are irregular, due to constitutional causes, ERGOAPIOL (Smith) is a reliable prescription. Containing apiol (M.H.S. special) together with ergot, aloin and oil of savin of the highest quality, this preparation effectively stimulates uterine tone and controls menstrual and postpartum bleeding.

In cases of ***Amenorrhea, Dysmenorrhea, Menorrhagia*** and ***Metrorrhagia,*** Ergoapiol serves as a good uterine tonic and hemostatic. Valuable in obstetrics after delivery of the child and for the menstrual irregularity of the ***Menopause.***

Prescribe 1 to 2 capsules 3 or 4 times daily. Supplied only in packages of 20 capsules. Literature on request.

As a safeguard against imposition the letters MHS are embossed on the inner surface of each capsule, *visible only* when the capsule is cut in half at seam as shown.

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Offenders against the State in ancient times were often made to undergo torture by fire. The victim's arm was fastened to a post and fire was placed under his hand. If he failed to show sufficient anguish to suit his tormentors, pieces of his flesh were torn from him by pincers.

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and Food rationing

HOW will rationing of foodstuffs containing essential vitamins affect the public health?

"Night-blindness"—long recognised as an indication of vitamin A deficiency—is emphasized by blackout conditions and may become crippling.

The increasing number of "night-blindness" cases—each primarily denoting vitamin A deficiency—makes obvious the need to obtain essential vitamins from *unrestricted* sources.

Best of these sources is Crookes' Halibut Oil because it is 80 times richer in vitamin A and 40 times richer in vitamin D than finest medicinal cod liver oil. And it is so highly concentrated that even children do not object to it, since it can be administered as "a *drop* instead of a teaspoonful."

PACKINGS

Liquid

5 c.c. vials	2/-
15 c.c. ,,	5/-
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Capsules

Vials of 25 capsules	2/6
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Crookes' Halibut Oil

Ensures the essential vitamins A & D

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The strain of present conditions is bound to sap the nervous energy of almost everybody. Almost everybody, therefore, will sooner or later need a reconstructive tonic to help in restoring mental and physical stamina exhausted by the anxieties and stresses occasioned by the war.

Neuro Phosphates (Eskay Brand) is ideally constituted to counteract the strain of war. For many years it has been prescribed with outstanding success in over-fatigue, neurasthenia, convalescence, etc.

Physicians are invited to write for samples from their present address so that they may renew their acquaintance with this palatable and efficient tonic.

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(ESKAY BRAND)

Each adult dose (two teaspoonfuls) contains in acid state :—

Sodium Glycerophosphate	2 grs.
Calcium Glycerophosphate	2 grs.
Strychnine Glycerophosphate	1/64 gr.

Distributed by

MENLEY & JAMES LTD., 123, COLDHARBOUR LANE, LONDON, S.E.5

for Smith, Kline & French Laboratories, owners of the Trade Mark

The Choice of an Antacid

THE serious disadvantages attending the administration of alkalis in the treatment of the dyspepsias are now well recognised. Recent reports, however, have again confirmed that the use of aluminium hydroxide gel obviates the secondary rise of acidity and the danger of "alkalosis" which are associated with alkali treatment.

"Alocol" (a specially prepared colloidal aluminium hydroxide) is rapidly replacing alkaline medicaments a as routine in the treatment of peptic ulcer and conditions associated with hyperchlorhydria.

"Alocol" forms with the gastric contents a colloidal jelly which has the power of adsorbing free hydrochloric acid, leaving intact the acid reaction of the stomach and thus not interfering with pepsin digestion and the antifermentative action of the gastric juice. "Alocol" is non-absorbable and completely free from any pleionectic tendency.

These considerable advantages of "Alocol" are combined with an effectiveness which makes the rapid cessation of subjective symptoms an almost invariable rule.

A clinical trial supply will be forwarded on request.
Issued in powder and tablet form.

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Colloidal Hydroxide of Aluminium

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Branches: CANADA: Peterborough, Ont. AUSTRALIA: 1, York Street North, Sydney. NEW ZEALAND: Maritime Buildings, Custom House Quay, Wellington. SOUTH AFRICA: P.O. Box 597, Cape Town. STRAITS SETTLEMENTS: P.O. Box 660, Singapore. HONG-KONG: 18, Pedder Street. Also at Berne, Paris, Chicago, Milan, Malta, Mauritius, Colombo, Cairo, etc.

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M.300

Treatment of Pertussis by the Intranasal Instillation of 'TOPAGENE' Mulford

'TOPAGENE' Pertussis Bacterial Antigen is indicated in the specific treatment of pertussis by intranasal instillation. It is a sterile solution of soluble antigenic substances derived from recently isolated phase I cultures of H. pertussis. Each c.c. represents the antigenic substances derived from 20,000 million organisms. Its use clinically has resulted in definite cessation or amelioration of the paroxysmal cough and a decrease in the duration of the disease.

Slesinger, in Journal of Pediatrics, 9:42, 1936, states that: "We feel that the high percentage of favourable results and the simplicity of the method of treatment definitely class this intranasal antigen as a valuable therapeutic procedure in the treatment of active cases of whooping cough."

The experience of Gold, reported in Journal of Pediatrics, 10:641, 1937, shows definite benefit in 85% of the cases treated early in the paroxysmal stage of the disease.

'Topagene' Pertussis Bacterial Antigen is supplied in 5-c.c. vials fitted with pipette bulb stopper.

Descriptive literature sent on request

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MULFORD BIOLOGICAL LABORATORIES

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Guard against HEAD COLDS

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We would remind doctors, wherever they may be serving, that 'Benzedrine' Brand Inhaler has thoroughly proved its value in arresting the development of colds and in preventing the onset of more serious complications, such as sinusitis.

Compact, convenient, effective—'Benzedrine' Brand Inhaler is invaluable to those who hate the thought of "falling out" through such relatively minor ailments as head colds and other forms of nasal congestion.

Medical Officers and other physicians are invited to write from their present address for professional samples

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For Smith, Kline & French Laboratories, owners of the Registered Trade Mark, 'Benzedrine'

STREPTOCIDE

(Sulphanilamide Evans)

For the Chemotherapy of Bacterial Infections

Streptocide is available in the following five forms :—

1. Streptocide Powder
2. Streptocide Tablets
3. Streptocide Solution. Containing 2½% Streptocide in a non-toxic solvent
4. Streptocide Ointment
5. Streptocide Cream. The Ointment and Cream contain in solution 5% Streptocide. The base used is non-toxic and neutral

INDICATIONS

1. Tablets, Powder and Solution

Endocarditis (Acute) when due to Hæmolytic Streptococci
Erysipelas
Mastoiditis
Meningococcal Meningitis
Otitis Media
Peritonsillitis. (Quinsy)
Phlegmonous Tonsillitis
Post Operative and Traumatic Streptococcal Septic Wounds
Puerperal Septicæmia
Puerperal Thrombophlebitis
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Septicæmia following Abortion
Streptococcal Empyema
Streptococcal Meningitis
Streptococcal Peritonitis
Streptococcal Pharyngitis
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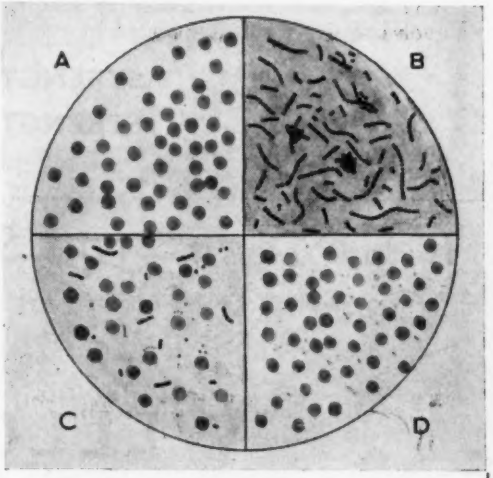

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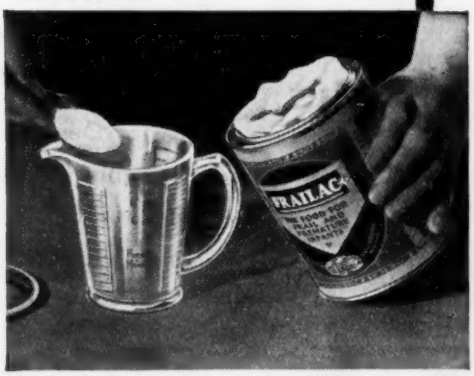

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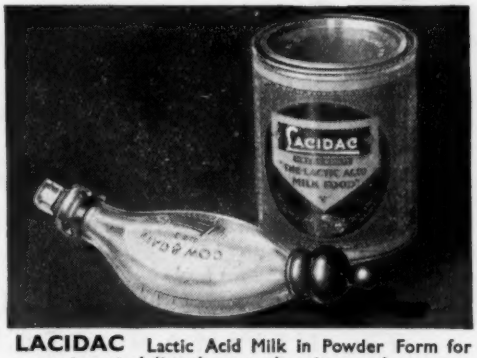

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See Lancet, pp. 1107-1110, November 25th, 1939.

*D.O.C.A. was used in this investigation.

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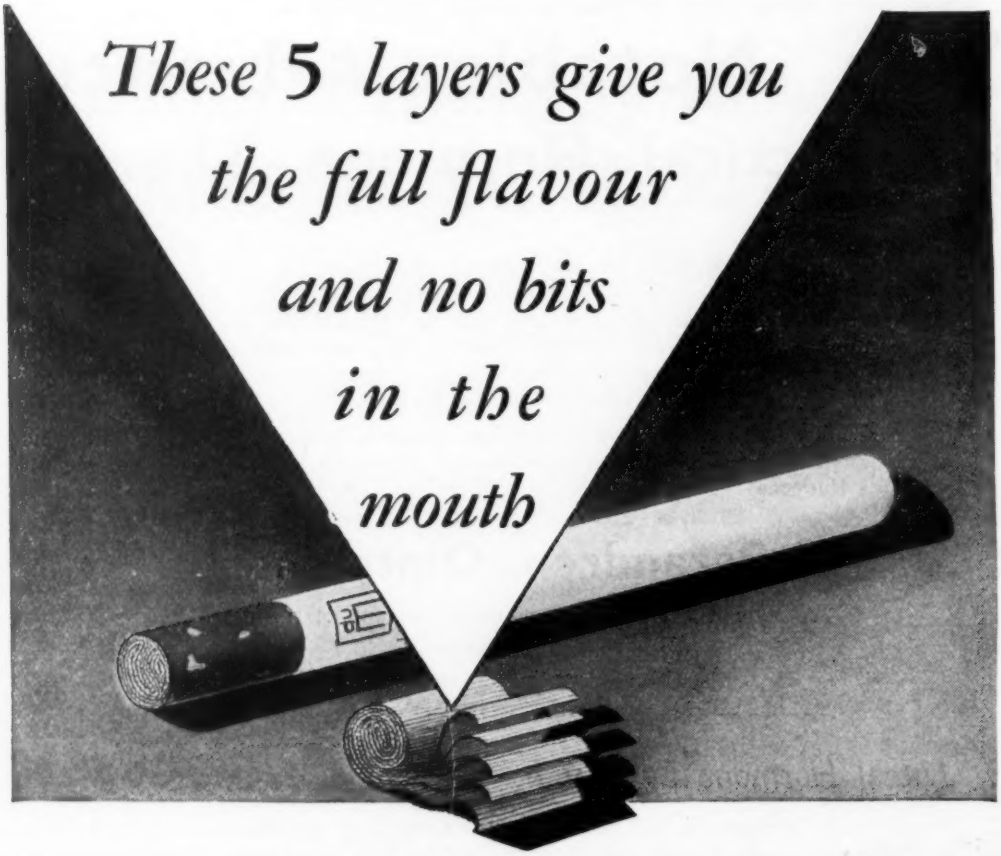

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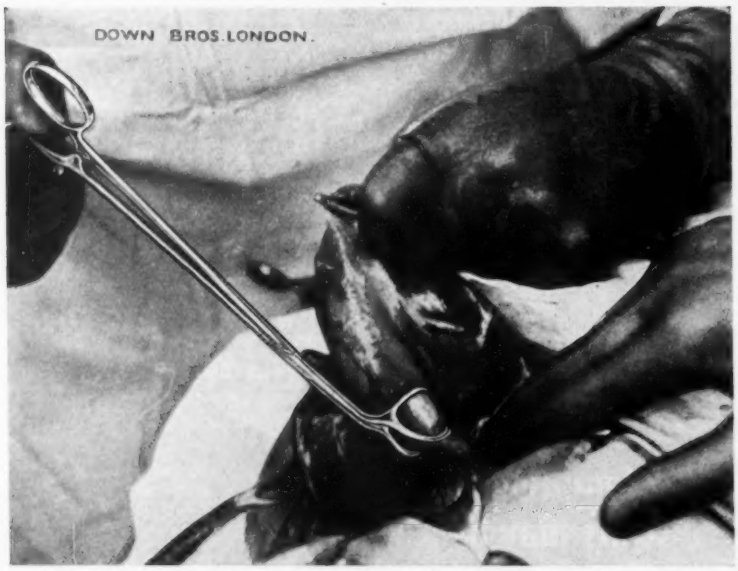

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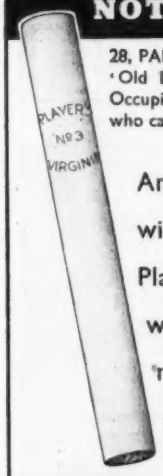

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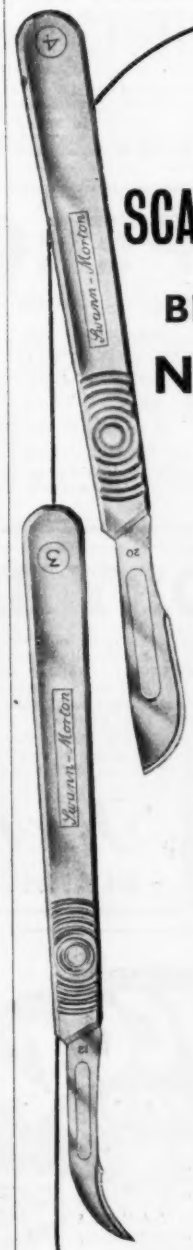

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For terms and further particulars apply to the Medical Superintendent (TELEPHONE: No. 2356 and 2357 Northampton), who can be seen in London by appointment.

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Telegrams: "Allevisted, London." **Telephones: Rodney 2641 and 2642.**

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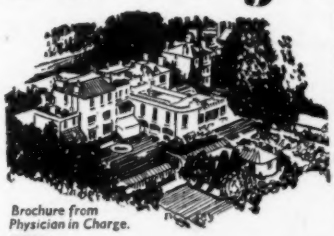

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For LADIES and GENTLEMEN of Unsound Mind.

Terms moderate. Apply to Resident Medical Superintendent. Telegrams: ADAM WEST MALLING. Telephone No. 2: MALLING.

PORTSMOUTH CITY MENTAL HOSPITAL

Accommodation is provided for the reception of PRIVATE PATIENTS of both sexes in three detached Villas, which are healthily and pleasantly situated in extensive grounds with sea views.

Charges from 3 guineas weekly, including all necessaries except clothing.—Apply to the Medical Superintendent and Resident Physician, THOMAS BEATON, O.B.E., M.D., F.R.C.P.

CITY OF LONDON MENTAL HOSPITAL

Near DARTFORD, KENT.

Ladies and Gentlemen received for treatment under certificates, and without certificates as either VOLUNTARY or TEMPORARY PATIENTS, at a weekly fee of £2 9s., and upwards.

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MEDICAL PROSPECTUS (47 pp.)

CONTENTS: The method and the cost of entering the Medical Profession. *Particulars of all Medical Examinations*, Postal Courses, and Oral Classes. Suggestions for the Higher Medical and Surgical Examinations. Suggestions for the Special Diploma Examinations. Refresher Courses. Openings for Women. Hints for writing theses.

Medical Prospectus gratis along with list of Tutors, &c., on application to the Principal, 17, Red Lion-square, London, W.C.1. (Telephone: HOLborn 6313.)

Temporary Assistant Pathologist

(Non-resident) required by Middlesex County Council at CENTRAL MIDDLESEX COUNTY HOSPITAL, Acton-lane, Willesden, N.W.10. Must be registered Medical Practitioners with extensive post-graduate experience in pathological work, especially biochemistry, bacteriology, and serology. Salary £650 per annum. Appointment, likely to continue for duration of war, is terminable by one month's notice. Whole-time official duties, which may include teaching students. Salary is inclusive, and any fees received must be paid to County Council.

Applications to undersigned by 20th January, with copies of not more than three recent testimonials. Canvassing, direct or indirect, disqualifies.

C. W. RADCLIFFE, "B.3," Clerk of the County Council.
Guildhall, Westminster, S.W.1.

London County Council.

Applications invited from Medical Practitioners of at least one year's standing for undermentioned positions. Experience in a resident appointment in a general hospital for at least six months desirable. Married quarters are not available.

TEMPORARY ASSISTANT MEDICAL OFFICER (Class II).—Salary £250 a year, together with board, lodging, and washing.

(*a*) KING GEORGE V SANATORIUM, NEAR GODALMING, SURREY.—Experience in treatment of pulmonary tuberculosis desirable.

*(*b*) HEATHERWOOD HOSPITAL, ASCOT, BERKS.—For orthopædic conditions and surgical tuberculosis in children.

* Women candidates only.

Application forms obtainable (stamped addressed foolscap envelope necessary) from Medical Officer of Health, Staff Division, 2, County Hall, S.E.1, returnable by 22nd January.

Canvassing disqualifies.

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Evelina Hospital for Sick Children,

Southwark, S.E.1.

Applications are invited from duly qualified candidates for the combined post of OUT-PATIENT OFFICER-HOUSE SURGEON (Male) for six months from 1st February, 1940. Salary at the rate of £120 per annum, with board and residence.

Applications, stating age, experience, and qualifications, accompanied by copies of three testimonials, must reach the undersigned not later than 17th January.

W. H. SIDNELL, House Governor.

The Royal Waterloo Hospital for

CHILDREN AND WOMEN,
Waterloo-road, London, S.E.1.

There is a vacancy for a HOUSE PHYSICIAN (Male) at the above Hospital. The applicant appointed would be required to work in the Out-patient Department and would also have charge of medical beds under the Honorary Medical Staff. Salary is at the rate of £100 per annum and the appointment is for six months in the first instance.

Application should be made to the undersigned, enclosing copies of three testimonials, not later than January 23rd.

J. H. TEASDALE, Secretary.

The Hostel of St. Luke (Clergy

Nursing Home), 14, Fitzroy-square, London, W.1.

The Committee of Management invite applications for the post of RESIDENT MEDICAL OFFICER (Male) to the above Hostel.

Candidates must have had previous experience as House Surgeon at a General Hospital. The appointment is for six months, and may be renewable for a further period of six months. Salary at the rate of £200 per annum, with board, residence, and laundry. A fortnight's holiday will be allowed every six months, and the Locum will be paid by the Committee of the Hostel.

Applications, with three recent testimonials, should be addressed to the Secretary of the Hostel at 14, Fitzroy-square, London, W.1, and reach him before 3rd February. The successful applicant will be required to take up his duties on 10th February, 1940.

Saint Mary's Hospital for Women

AND CHILDREN, Plaistow, E.13.

Applications are invited for the post of RESIDENT HOUSE PHYSICIAN (Male or Female). The appointment is for six months. Board and residence are provided. Salary at the rate of £150 per annum, including £5 allowance for laundry. Personal canvassing not desired.

Applications, with copies of three recent testimonials, to be sent to the undersigned not later than January 29th.

A. ERNEST WILKES, Secretary.

Royal Northern Hospital,

Holloway, N.7.

Applications are invited for the following appointment:—HOUSE SURGEON, vacant February 1st. The appointment is for nine months (six months as House Surgeon and three months as Casualty Officer). Salary at the rate of £70 per annum, with board, residence, and laundry unless under contract with the Emergency Medical Service.

Applications, with copies of testimonials, should be sent by January 19th to the undersigned from whom the necessary forms of application and rules can be obtained.

GILBERT G. PANTER, Secretary.

Royal National Orthopædic Hospital.

Applications are invited for the post of RESIDENT SURGEON and MEDICAL SUPERINTENDENT at the Royal National Orthopædic Hospital, Brockley Hill, Stanmore, Middlesex. Applicants must be Fellows of the Royal College of Surgeons of England.

In addition to the surgical work at the hospital the duties include attendance at various public health orthopædic clinics.

In normal times the salary is at the rate of £1250 a year and this rate obtains to the post. A house is also provided.

The hospital is at present a first base receiving hospital under the Ministry of Health Emergency Medical Service, and confirmation of the selection will be necessary by the Ministry before final appointment is made.

Applications should be received by the Secretary, Royal National Orthopædic Hospital, 234, Great Portland Street, London, W.1, from whom further particulars can be obtained, not later than Feb. 12.

Royal National Hospital for

RHEUMATIC DISEASES, BATH.

Applications are invited for the post of RESIDENT MEDICAL OFFICER which will become vacant about the 20th January, 1940.

Salary at the rate of £150 per annum, with board, residence, and laundry.

Applications, stating age, qualifications, and experience, together with copies of three testimonials, should be forwarded to the undersigned by the 15th January, 1940.

E. W. COX, Registrar.

21st December, 1939.

County Borough of Grimsby.

SCARTHO ROAD INFIRMARY.

Applications are invited for the post of RESIDENT MEDICAL OFFICER (Male, unmarried). There are 247 Beds, both medical and surgical. Candidates must be fully qualified and registered and considerable hospital experience in both branches is essential. Salary at the rate of £350 per annum, rising by annual increments of £25 to £450 per annum, plus board, residence, and laundry.

The appointment will be subject to one month's notice on either side and to the provisions of the Local Government Superannuation Act, 1937. The successful candidate will be required to pass a medical examination.

Forms of application and further particulars may be obtained from the Medical Officer of Health, St. James House, Bargate, Grimsby. Applications, endorsed "Resident Medical Officer," and accompanied by copies of three recent testimonials, should be sent to the Public Assistance Officer, Silver-street, Grimsby, not later than 17th January, 1940.

L. W. HEELER, Town Clerk.

Municipal Offices, Grimsby, 30th December, 1939.

The Duchess of York Hospital for

BABIES, MANCHESTER, 19. (80 Beds.)

Applications are invited for the post of REGISTRAR. Duties to include one weekly out-patient session.

Appointment for one year, with honorarium of £50.

Applications to be sent by the 20th January, 1940, with copies of testimonials, to—

LOUISE GILLESPIE, Secretary.

The Royal Hospital, Wolverhampton.

(Incorporated under Charter.)

GYNÆCOLOGICAL AND OBSTETRIC DEPARTMENT.

ASSISTANT RESIDENT MEDICAL OFFICER (Female) required for the above Department (60 Beds). Duties to commence 15th February, 1940.

Candidates must be registered under the Medical Acts and unmarried.

The appointment is for six months. Salary at the rate of £100 per annum. Board, furnished rooms, and laundry provided.

Applications, with copies of testimonials, to be forwarded to the undersigned.

W. H HARPER, House Governor.

Wolverhampton, 9th January, 1940.

City of Liverpool.

RESIDENT ASSISTANT MEDICAL OFFICERS.

WALTON HOSPITAL (1725 Beds).
MILL ROAD INFIRMARY (762 Beds).

Applications are invited for the above appointments which fall vacant on 1st April, 1940.

The appointments are for a period of one year at a salary of £200 per annum, together with the usual residential allowances. Canvassing will be deemed a disqualification.

Applications to be made on forms obtainable from the Medical Officer of Health, Hospitals Department, Gordon House, Belmont-grove, Liverpool, 6, to be endorsed "Resident Assistant Medical Officer" and returned to the undersigned so as to be received not later than Wednesday, 31st January, 1940.

W. H. BAINES, Town Clerk.

Municipal Buildings, Dale-street, Liverpool, 2, January, 1940.

Bristol General Hospital.

(Branch of the Bristol Royal Hospital.)

The Committee invites applications for the following appointments which become vacant on March 1st, 1940.

Two HOUSE PHYSICIANS, Three HOUSE SURGEONS, a RESIDENT OBSTETRIC OFFICER, a HOUSE SURGEON to the SPECIAL DEPARTMENTS and a CASUALTY HOUSE SURGEON.

The appointments will be made for six months with salaries at the rate of £80 per annum, and at the rate of £100 per annum for the Casualty House Surgeon, and in the event of a second appointment being held, at the rate of £100 per annum in each case with board, residence, &c., provided in the Hospital.

Candidates must be registered under the Medical Acts and produce testimonials of good personal character and ability, and must have recent experience of administration of anæsthetics.

Forms of application, &c., to be obtained from the Secretary, must be completed and returned with copies of testimonials, addressed to the undersigned on or before Saturday, February 3rd, 1940, from whom further particulars may be obtained.

THOMAS W. GREGG, F.C.C.S., Secretary.

Salford Royal Hospital.

(256 Beds.)

Applications are invited from registered candidates (Male) for a RESIDENT SURGICAL OFFICER, for twelve months from 1st February next. Salary £200 per annum.

Applications, on a prescribed form obtainable from the undersigned, should be made immediately.

By order of the Board,

H. B. SHELSWELL, General Superintendent and Secretary.

12th January, 1940.

City of Liverpool.

RESIDENT ASSISTANT MEDICAL OFFICERS (Male and Female).

ALDER HEY CHILDREN'S HOSPITAL.

Applications are invited for the above appointments which fall vacant on 1st April, 1940. The appointments are for a period of six months in the first instance and may be renewed for a further similar period at the option of the Council. Salary £200 per annum, together with the usual residential allowances. Canvassing will be deemed disqualification.

400 Beds are provided for acute cases of sick children and 750 Beds are set aside for Casualties, mainly orthopædic.

One of the candidates will be required for duty in the Orthopædic Wards and previous orthopædic experience is desirable.

Applications to be made on forms obtainable from the Medical Officer of Health, Hospitals Department, Gordon House, Belmont-grove, Liverpool, 6, to be endorsed "Resident Assistant Medical Officer" and returned to the undersigned so as to be received not later than Wednesday, 31st January, 1940.

W. H. BAINES, Town Clerk.

Municipal Buildings, Dale-street, Liverpool, 2, January, 1940.

The Royal Liverpool Children's

HOSPITAL.

There will be vacancies on 1st April next for Two RESIDENT HOUSE PHYSICIANS and Two RESIDENT HOUSE SURGEONS at the City Branch, Myrtle-street. The appointments will be for a period of six months. Salary in each case at the rate of £100 per annum.

Applications, with copies of recent testimonials, to be sent to the Secretary, Royal Liverpool Children's Hospital, Myrtle-street, Liverpool, 7, on or before Thursday, 25th January, 1940.

There will be vacancies on 1st April next for One RESIDENT MEDICAL OFFICER and One RESIDENT SURGICAL OFFICER at the Heswall Branch of the Institution (240 Beds). The appointments will be for a period of six months. Salary in each case at the rate of £120 per annum.

Applications, with copies of recent testimonials, to be sent to the Secretary, Royal Liverpool Children's Hospital, Myrtle-street, Liverpool, 7, on or before Thursday, 25th January, 1940.

Glasgow Royal Infirmary.

Applications are invited from registered Medical Practitioners for the post of :—

SURGICAL OFFICER to take charge of new Rehabilitation Department.

Full particulars may be obtained from the Superintendent, Glasgow Royal Infirmary, 84, Castle-street, Glasgow, C.4.

Candidates are requested to lodge with the undersigned, not later than 24th January, eighteen copies of application and three relative testimonials with each. No canvassing.

R. MORRISON SMITH, C.A., Secretary and Cashier.

Royal Infirmary Office, 135, Buchanan-street, Glasgow, C.1.

Borough of Barry.

ACCIDENT AND SURGICAL HOSPITAL.

Applications are invited for the post of RESIDENT SURGICAL OFFICER during the period of the existing National Emergency. Salary at the rate of £350 per annum, rising by two increments of £50 per annum to £450, together with board and lodging.

Candidates must be capable of performing major surgical operations and preference will be given to applicants holding higher surgical qualifications and able to assist in carrying out the X-ray work of the Hospital. The successful candidate will act under the direction of the Medical Superintendent and the Surgeon, and will be required to pass a medical examination.

Applications, stating age, qualifications, and full particulars with regard to experience, with copies of three recent testimonials, to be sent to Dr. E. I. Davies, Medical Officer of Health, Public Health Offices, Barry, Glam., not later than Wednesday, the 24th January, 1940.

T. D. HOWELLS, Town Clerk.

Council Offices, Barry, 6th January, 1940.

Manchester Northern Hospital

(General Hospital. 113 Beds),
Cheetham Hill-road, MANCHESTER, 8.

Applications are invited for the posts of RESIDENT HOUSE PHYSICIAN and RESIDENT HOUSE SURGEON. Salary £100 per annum, with board and residence.

The appointments are for six months from mid-February, 1940 (successful candidates are eligible for reappointment for a further six months).

Applications, stating age, qualifications, and nationality, with copies of not less than three recent testimonials, should be sent to Mr. JAMES C. DANIELS, Secretary, 38, Barton-arcade, Manchester, 3, by 20th January.

Honorary Physician to the

ROYAL LIVERPOOL BABIES' HOSPITAL, WOOLTON, LIVERPOOL.—Applications are requested for a temporary vacancy on the Staff of this Hospital. Applications, with testimonials, to be sent to the Secretary of the Hospital, 9, Copperas-hill, Liverpool, 3, not later than Saturday, 20th January.

County Borough of West Bromwich.

HALLAM HOSPITAL. (472 Beds.)

HOUSE PHYSICIAN AND HOUSE SURGEON.

Applications are invited from duly qualified (unmarried) Male Registered Practitioners for the above appointments.

Salary £200, together with the usual resident emoluments. The appointments are for six months and renewable for a further six months, but can be terminated by either party giving six weeks' notice.

All fees received by the persons appointed will be payable into the funds of the Council.

Applications, stating age, experience, and qualifications, together with copies of three recent testimonials, must be forwarded to the Medical Officer of Health, 2, Lodge-road, West Bromwich, so as to arrive not later than by first post on Wednesday, January 17th, 1940.

G. F. DARLOW, Town Clerk.

Town Hall, West Bromwich, 2nd January, 1940.

Newcastle-upon-Tyne Eye Hospital.

Wanted at once, JUNIOR RESIDENT HOUSE SURGEON (Male or Female). Salary £150 per annum.

Apply, with copies of testimonials, and stating ophthalmic experience, to CHARLES E. V. UPTON, Secretary, St. Mary's-place, Newcastle-upon-Tyne.

Keighley and District Victoria Hospital,

YORKSHIRE, WEST RIDING.
(140 Beds—Two Residents.)

APPOINTMENT OF RESIDENT MEDICAL OFFICERS.

Applications are invited from registered Medical Practitioners (Female) for the following posts:—

FIRST RESIDENT MEDICAL OFFICER. Salary £160 per annum, to commence 12th February, 1940.

SECOND RESIDENT MEDICAL OFFICER. Salary £120 per annum, to commence 1st March, 1940.

Proof of registration to be furnished before appointment. Full residential emoluments. Term, six months renewable.

Applications, with particulars of age, experience, and nationality, together with copies of two recent testimonials, to be sent to the undersigned not later than 20th January, 1940.

J. YOUNG, Secretary-Superintendent.

City of Coventry.

MUNICIPAL GENERAL HOSPITAL.

The Public Health Committee invite applications from duly registered Male Medical Practitioners in connexion with two vacancies for ASSISTANT RESIDENT MEDICAL OFFICERS at the above Hospital (324 Beds). The Hospital includes medical, surgical, obstetric, and children's wards.

Each appointment will be for a period of one year. The salary will be at the rate of £250 per annum for the first six months and at the rate of £300 per annum for the second six months, with board, residence, and laundry. The officers appointed will be required to pay to the Corporation any fees received in connexion with their official work.

Applications, accompanied by copies of three recent testimonials, must reach the undersigned not later than first post on January 18th, 1940.

A. MASSEY, Medical Officer of Health.

The Council House, Coventry, 1st January, 1940.

York County Hospital.

(204 Beds.)

Applications are invited for the post of HOUSE SURGEON to the EYE, EAR, NOSE, AND THROAT DEPARTMENT. Salary £150 per annum, with board, residence, and laundry.

Applications, stating age and previous experience, together with copies of not more than three recent testimonials, to be sent to the undersigned not later than 9 A.M. on Monday, 15th January, 1940.

J. R. MACKRILL, Secretary.

General Hospital, Nottingham.

(389 Beds.)

ORTHOPÆDIC AND FRACTURE DEPARTMENT.

A HOUSE SURGEON (Male) is required for the above Department. The appointment is for six months with salary at the rate of £150 a year, with board, residence, and laundry. Experience in the treatment of fractures desirable.

Candidates are asked to send applications, stating age, qualifications, and experience, together with copies of testimonials, to the undersigned. Duties to commence as early as possible.

HENRY M. STANLEY, House Governor and Secretary.

Torbay Hospital, Torquay.

(168 Beds.)

HOUSE SURGEON (Male) required immediately. Salary £175 per annum, with board, residence, and laundry. Candidates must be fully qualified, registered, and unmarried.

Applications, stating age, nationality, qualifications, and experience, with copies of not more than three recent testimonials, should be forthwith sent to the undersigned.

E. L. GRIST, Secretary.

January 8th, 1940.

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Richard Murray Hospital, Blackhill,

CO. DURHAM.

HOUSE SURGEON.

Applications are invited for the post of House Surgeon at the above Hospital, which has accommodation for sixteen surgical cases and sixteen maternity cases. The salary offered is £200 per annum, with board, apartments, and laundry in addition.

Applicants will require to have had previous experience as a House Surgeon in a General Hospital, and preference will be given to those with similar experience in a Maternity Hospital.

The appointment is for a period of one year only.

The Hospital is served by a Visiting and Consultant Surgeon and a Visiting and Consultant Obstetrician.

So far as the Maternity Unit is concerned, the person appointed will be subject to the administrative control of the County Medical Officer of Health.

The duties will include the medical supervision of an adjacent small Convalescent Home for mothers and young children.

Applications, stating age, qualifications, and experience, and accompanied by copies of not more than three recent testimonials, must be received by the undersigned not later than Saturday, 27th January, 1940.

T. W. ADDISON,
Secretary to the Richard Murray Hospital Joint Board.

Shire Hall, Durham, 5th January, 1940.

City of Birmingham Education

COMMITTEE.

APPOINTMENT OF TWO ASSISTANT SCHOOL MEDICAL OFFICERS (Men or Women).

Two Assistant School Medical Officers (Men or Women) are required to begin duty as early as possible. Candidates must have had at least three years' experience in the practice of their profession subsequent to obtaining a registrable qualification. Salary according to "Askwith" Scale (£500 to £700 by annual increments of £25). In fixing commencing salary previous service in Class II of "Askwith" Scale may be taken into account. £10 per annum travelling expenses allowed.

Forms of application (to be returned not later than first post on Wednesday, 31st January, 1940), together with further information, obtainable from the undersigned on receipt of stamped, addressed foolscap envelope. Communications should be endorsed "Assistant School Medical Officer." Canvassing will disqualify.

P. D. INNES, Chief Education Officer.

Education Office, Margaret-street, Birmingham, 3,
12th January, 1940.

The Chester Royal Infirmary.

(Normal capacity 225 beds.)

Applications are invited for the post of HOUSE SURGEON (Male) to the ORTHOPÆDIC DEPARTMENT, to take up duty on the 1st February, 1940. Salary £150 per annum, with board, lodging, and laundry.

Application list closes 25th January, 1940.

Application forms may be obtained from—

W. H. GRACE, M.D., F.R.C.P.,
Hon. Secretary, Medical Committee.

The Royal Liverpool Children's

HOSPITAL, Myrtle-street.

The Committee invite applications from Graduates, with previous hospital experience, for the appointment of RESIDENT CASUALTY OFFICER (Male). The appointment will be for a period of one year from 1st April, 1940. The holder of the post will be eligible for re-election. Salary at the rate of £250 per annum.

Further particulars may be obtained from the Secretary, Royal Liverpool Children's Hospital, Myrtle-street, Liverpool, 7, to whom applications should be sent, with copies of recent testimonials, on or before Thursday, 25th January, 1940.

Wingfield-Morris Orthopædic

HOSPITAL, HEADINGTON, OXFORD.

THE LORD NUFFIELD SCHOLARSHIP IN ORTHOPÆDIC SURGERY.

Male. £200 per annum, with board and residence for two years followed by £100 for three months' travel. Orthopædic experience essential.

Further information may be obtained from Professor H. J. SEDDON, to whom applications should be sent before March 1st.

The Prince of Wales's Hospital,

Greenbank-road, PLYMOUTH.
(Formerly the South Devon and East Cornwall Hospital.)
(264 Beds.)

Applications are invited for the post of HOUSE SURGEON. Salary £120 per annum, with board, residence, and laundry.

Appointment is tenable for six months and is subject to renewal. Duties to commence 3rd February.

The Hospital is officially recognised for the surgical practice required before admission to the Final Fellowship Examination of the Royal College of Surgeons of England.

Applicants must be registered under the Medical Acts and be members of either the Medical Defence Union or the London Counties Medical Protection Society.

Applications, stating age and qualification, with copies of three recent testimonials, to reach the undersigned by 24th January, 1940.

ARTHUR R. CASH, General Superintendent.

Royal Victoria Infirmary, Newcastle
UPON TYNE.
(835 Beds.)

The Committee invite applications for the post of RESIDENT MEDICAL OFFICER (Male) (open appointment).
Applicants must be Members of the Royal College of Physicians, London.
The Resident Medical Officer is the senior resident: his duties include general charge of the Admission Department and the supervision of medical emergencies.
The appointment is for one year and is renewable annually for a period not exceeding three years.
The salary is at the rate of £350 per annum.
Full information can be obtained by application to the undersigned, to whom applications, stating age, qualifications, and experience, accompanied by not more than three testimonials, should be sent on or before Friday, 9th February, 1940.
S. DUNSTAN, House Governor and Secretary.
8th January, 1940.

County Borough of Middlesbrough.
HEALTH DEPARTMENT.

HOLGATE MUNICIPAL HOSPITAL.

Applications are invited from registered Male Medical Practitioners (unmarried) for the post of ASSISTANT RESIDENT MEDICAL OFFICER at the Holgate Municipal Hospital, at a salary of £270 per annum, together with board, residence, and laundry.
The appointment will be for one year. In addition to hospital duties, the successful candidate will be required to undertake relief or holiday duty work of other whole-time members of the Corporation's medical staff as required.
The Municipal Hospital contains 329 beds and is a training school for nurses and affords excellent facilities for post-graduate work and experience.
Application, stating age and experience, together with copies of three testimonials, to be sent to the Medical Officer of Health, Municipal Buildings, Middlesbrough, not later than 22nd January, 1940.
PRESTON KITCHEN, Town Clerk.
Municipal Buildings, Middlesbrough, 8th January, 1940.

Bedford County Hospital.

Wanted at once, SECOND HOUSE SURGEON for a term of not less than six months. Must be Male, unmarried, and fully qualified. Salary £150 per annum, with board, lodging, and laundry.
Applications, stating age, nationality, and qualifications, together with three recent testimonials, to be sent to the Secretary, Hon. Medical Staff Committee.

Royal Victoria Hospital, Dover.
(80 Beds. Two Residents.)

Wanted, RESIDENT MEDICAL OFFICER (Male), duly qualified and registered, for 3rd February. Salary £140 per annum, with board, lodging, and laundry.
Applications, stating age, with particulars of experience, accompanied by copies of three recent testimonials, should be sent to the Secretary as soon as possible.

Epsom County Hospital.

Applications are invited for the appointment of HOUSE OFFICER. Salary £200 per annum, plus full residential emoluments.
Applications, stating age, qualifications, and experience, should be sent to Dr STONES, Medical Superintendent, Epsom County Hospital, Dorking-road, Epsom, by 20th January, 1940.

AMENDED ADVERTISEMENT.

Borough of Barking.

DEPUTY MEDICAL OFFICER OF HEALTH.
Applications are invited before the 29th January, 1940, from qualified Medical Practitioners for the designated appointment of Deputy Medical Officer of Health and Deputy School Medical Officer.
Candidates must have had experience in public health work and must hold a registrable qualification in public health.
Salary scale: £725–£25–£800.
Particulars of duties and application form may be obtained from the undersigned.
S. A. JEWERS, Town Clerk.
Town Hall, Barking, Essex.

Northampton General Hospital.
(381 Beds.)

There is a vacancy immediately for a CASUALTY OFFICER.
The successful candidate will be elected for the period ending on 31st March, 1940, and will be eligible for re-election for a further period of six months.
Salary will be at the rate of £150 per annum, with board, residence, and laundry.
Candidates, who must be duly qualified and registered, must be Males and of British nationality.
Applications, stating age, qualifications, &c., with copies of three testimonials, must reach the undersigned not later than first post on Wednesday, 17th January.
GORDON S. STURTRIDGE, M.B., B.S., Superintendent.
8th January, 1940.

Telephone: HOLborn 1341
ASSOCIATED CLINICAL & ANALYTICAL LABORATORIES LTD.
Staple Inn Buildings (South),
335, HIGH HOLBORN, LONDON, W.C.1
CHEMICAL ANALYSES
CLINICAL EXAMINATIONS
List of Fees, etc., on application to the Medical Superintendent.

Saint Mary's Hospitals, Whitworth
PARK, MANCHESTER, 13.

Three HOUSE SURGEONS required for the Whitworth Park Hospital, in the Gynæcological, Maternity, and Children's Departments respectively, each for a period of six months from 1st March, 1940. Salary at the rate of £50 per annum, with board and residence.
Applications, with copies of three testimonials, to be sent to the undersigned on or before the 20th January, 1940.
A. R. WISE, Superintendent and Secretary.

Victoria Hospital, Burnley.
(150 Beds.)

HOUSE PHYSICIAN (MALE).
Applications are invited for the above post which is at present vacant. The duties include the giving of a number of anæsthetics, and the person appointed will also be required to act as House Surgeon to the Eye, Ear, Nose, and Throat Department. The appointment is for six months in the first instance, at a salary of £150 per annum, together with board, residence, and laundry. At the end of this period reappointment may be applied for, and if granted the salary for the second six months will be at the rate of £200 per annum.
Applications, giving full details of qualifications and experience, stating nationality, together with copies of recent testimonials, should be addressed to the undersigned forthwith.
J. E. WHEATCROFT, Secretary.

Berkshire County Council.

ASSISTANT MEDICAL OFFICER.
Applications for the above post are invited from registered Medical Practitioners holding a Diploma in Public Health. Candidates should have had at least three years' experience in the practice of their profession subsequent to qualification.
The person appointed will work under the direction of the County Medical Officer and the duties of the office will include medical inspection of school-children, in addition to such general public health work as may be assigned to him.
The salary will be at the rate of £500 per annum, rising by annual increments of £25 to £700 per annum, plus travelling and subsistence allowances upon the Council's scale. The appropriate contributions will be deducted from the salary for superannuation purposes.
Applications, accompanied by three testimonials, must be made on the official form, which can be obtained from the undersigned and must be returned, completed, on or before the 22nd January, 1940.
All requests for forms of application and particulars of the appointment must be accompanied by a stamped addressed foolscap envelope.
H. J. C. NEOBARD, Clerk of the County Council.
Shire Hall, The Forbury, Reading, 29th December, 1939.

City of Manchester.

WOMAN MEDICAL OFFICER FOR MATERNITY AND CHILD WELFARE.
The Public Health Committee invite applications for the position of Woman Medical Officer from qualified Medical Practitioners who are experienced in midwifery and children's diseases.
The salary is £600 per annum, rising by annual increments of £25 to a maximum of £700.
Application forms, with full information, may be obtained on application to the Medical Officer of Health, Public Health Department, Town Hall, Manchester, 2, and must be returned to reach him not later than Monday, January 29th, 1940.
R. H. ADCOCK, Town Clerk.
Town Hall, Manchester, 2, January 2nd, 1940.

The Royal Hospital, Wolverhampton.
(Incorporated under Charter.)
(300 Beds.)

Applications are invited for the post of RESIDENT SURGICAL OFFICER. Salary £200 per annum. Experience of major surgery essential. The successful candidate must hold one of the higher qualifications in Surgery.
Applications, with copies of testimonials, to be forwarded to the undersigned forthwith.
W. H. HARPER, House Governor.
Wolverhampton, 27th December, 1939.

Bristol Royal Infirmary.
(Branch of the Bristol Royal Hospital.)

Applications are invited for the following resident medical appointments for the six months commencing March 1st, 1940.

Three HOUSE PHYSICIANS.
Four HOUSE SURGEONS and One ASSISTANT HOUSE SURGEON.
One HOUSE SURGEON to the CASUALTY DEPARTMENT.
One HOUSE SURGEON to the EAR, NOSE, AND THROAT DEPARTMENT.
Two HOUSE SURGEONS to the FRACTURE DEPARTMENT.
One GYNÆCOLOGICAL HOUSE SURGEON.

Salaries at the rate of £80 per annum, except in the case of the Casualty House Surgeon who will receive a salary at the rate of £150 per annum.

Candidates, who must be duly qualified, to send in their applications on forms to be obtained from the undersigned which must be returned on or before February 3rd, 1940, together with copies of not more than three testimonials. The elected candidates must become members of the Medical Defence Union before taking up their appointments.

ELLIS C. SMITH, F.C.I.S.,
Secretary and House Governor, Bristol Royal Infirmary.

Coventry and Warwickshire Hospital.

HOUSE SURGEON to FRACTURE AND ORTHOPÆDIC DEPARTMENT required. The candidate appointed will be required to give three months' service as Casualty Officer, and will then proceed to the senior post with charge of in-patient beds and attendance at Fracture and Orthopædic Clinics. The appointment is vacant immediately, and will terminate on July 31st. Salary at the rate of £150 per annum, together with full board, quarters, and laundry.

Applications to be addressed to the undersigned immediately.

(Sgd.) S. CECIL HILL, House Governor and Secretary.

County Mental Hospital, Prestwich,
Near MANCHESTER.

ASSISTANT MEDICAL OFFICER required, commencing salary £550 per annum, rising to £600 after one year's service, plus £50 per annum on obtaining the D.P.M., less charges for board, furnished apartments, attendance, and laundry, valued at £150 per annum. Further increases according to promotion.

Candidates must be unmarried and registered under the Medical Act. The appointment is subject to 3 per cent. reduction from salary under the Asylums Officers' Superannuation Act, 1909. Apply, stating age and full particulars, to the Medical Superintendent.

Royal Sheffield Infirmary and Hospital.

THE ROYAL INFIRMARY, SHEFFIELD.
(476 Beds.)

Applications are invited for the post of CLINICAL ASSISTANT to the DERMATOLOGICAL DEPARTMENT. Salary £300 per annum (non-resident).

The successful candidate will be expected to take up duties on 21st February, 1940, and the appointment will be tenable for six months, subject to re-election.

Letters, stating age and giving particulars of qualifications and any previous experience, should be submitted to the undersigned.

H. KINGSLEY PEARCE,
General Superintendent and Secretary.

5th January, 1940.

Surrey County Council.

ASSISTANT MEDICAL OFFICERS.

Applications are invited for the appointment of two Assistant Medical Officers (Male). Applicants must possess a qualification in Public Health. The main duties will be in connection with the School Medical and Maternity and Child Welfare Services, but the officers appointed will be required to undertake such other Public Health duties as may be allocated to them. They will be on the staff of the County Medical Officer of Health, must reside in the County of Surrey, and devote their whole time to the work.

Salary £600 per annum, rising by annual increments of £25 to £700 per annum. Travelling expenses in accordance with the Council's scale will be allowed.

The appointments will be subject to the approval of the Ministry of Health and the Board of Education, to the successful candidates passing a medical examination, to the provisions of the Local Government Superannuation Act, 1937, and to the Staffing Regulations of the Council, which provide, inter alia, that appointment may be determined at any time by three months' notice.

Applications, stating age, qualifications, and experience, together with copies of three recent testimonials, should be made on the prescribed form and sent to the County Medical Officer of Health, Technical College, Stoke Park, Guildford, from whom copies of the application form may be obtained, and to whom any inquiries relating to the appointments should be addressed.

Last day for receipt of applications, Saturday, 27th January, 1940.

Canvassing, directly or indirectly, will disqualify.

DUDLEY AUCKLAND, Clerk of the County Council.
Technical College, Stoke Park, Guildford, 9th January, 1940.

Borough of Barnes,

MEDICAL OFFICER OF HEALTH

The council invite applications for the above appointment from qualified registered medical practitioners who, in addition to the qualification prescribed by any statute, are also registered in the Medical Register as holding a diploma in sanitary science, public health or state medicine.

The appointment will be subject to the successful candidate passing a medical examination, to the approval of the Minister of Health, and to the provisions of the Sanitary Officers (Outside London) Regulations 1935, the Local Government Act 1933, and the Local Government Superannuation Act 1937.

The person appointed will be required to perform all the duties imposed on a medical officer of health under the relevant acts and orders, to act as medical officer to the maternity and child welfare centres, and as medical superintendent of the isolation hospital and to carry out such other duties of a like nature as the council may with the consent of the Minister of Health from time to time direct. He will be required to reside within the borough, to devote his whole time to the duties of the office, and he will not be permitted to engage in private practice.

The person appointed will be required to enter into an agreement of service with the council and to give three months' notice to determine the appointment.

Applicants must not be over 45 years of age.

The inclusive salary attaching to the office will be £1000 per annum rising by biennial increments of £50 to a maximum salary of £1150 per annum.

The successful applicant will be required to drive his own car and to use it for his work on behalf of the council for which an allowance of £75 per annum will be made. All fees receivable in respect of any duties carried out by the medical officer of health must be paid into the council's account. Applications, stating age, qualifications and experience, accompanied by copies of three recent testimonials, must be delivered to the undersigned at the Council House, Mortlake, S.W.14, not later than Friday, the twenty-sixth day of January, 1940.

Any form of canvassing is prohibited and the applicant must state whether he is related to any member or chief officer of the council.

ARTHUR C. FOX, Town Clerk.

National Sanatorium, Benenden, Kent.

The Council of the National Sanatorium, Benenden, Kent, invites applications for the post of HOUSE PHYSICIAN.

The appointment is for six months commencing 1st March, 1940. Salary at the rate of £150 per annum, with board, residence, and laundry.

Applicants should be fully qualified and previous experience in the treatment of pulmonary tuberculosis is desirable. Applications, stating age, qualifications, experience, and nationality together with copies of three recent testimonials, should be sent to the undersigned not later than 26th January.

C. C. LAWRENCE, Hon. Secretary.

Envelopes to be marked "Personal."

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Applications are invited for the following posts, vacant on 1st February, 1940.

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(*b*) HOUSE SURGEON. Salary £125 per annum, with board, residence, and laundry. Tenable for a period of six months and renewable.

Candidates (Male) must be unmarried, and should have held previous hospital appointments.

Applications, stating age, nationality, qualifications, &c., together with copies of testimonials, should reach the undersigned as soon as possible.

JOHN WILLIAMS, Secretary-Superintendent.

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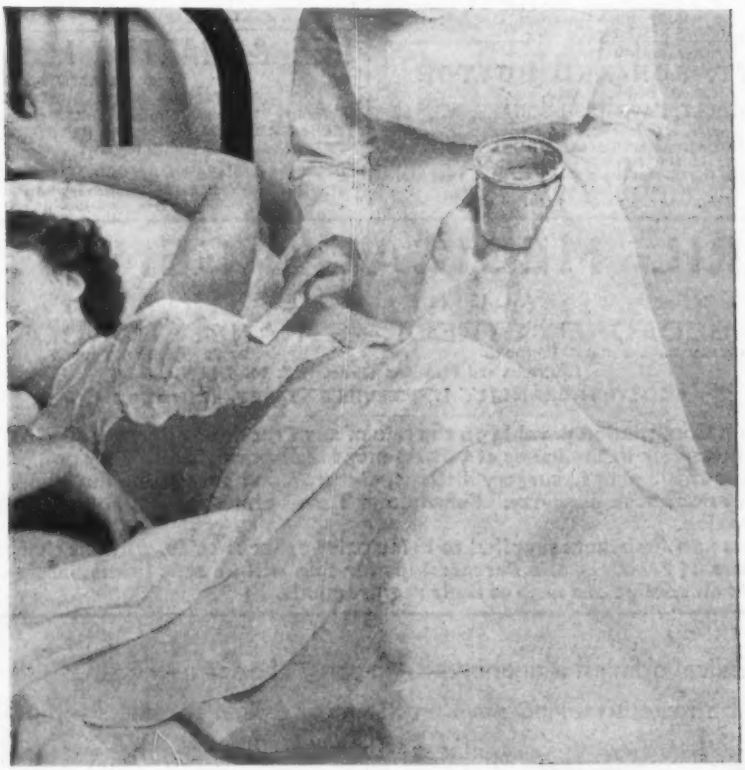

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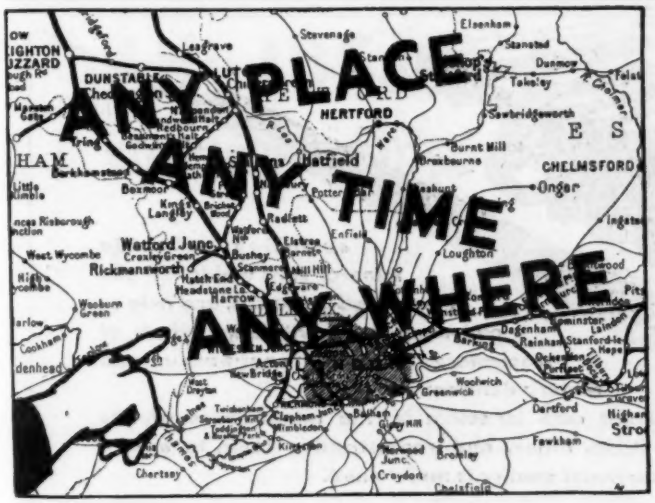

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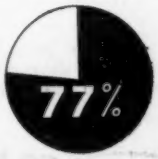

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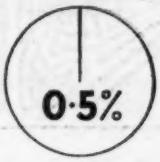

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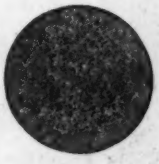

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AMONG the many and diverse analgesics which have been evolved by modern chemical research, acetyl-salicylic acid retains its reputation as one of the safest and most effective. Its tendency to liberate salicylic acid—the irritant properties of which are well known to physicians—has, however, caused many to hesitate to employ it as widely as it deserves. Exhaustive trial in hospital and private practice proves that "Alasil" definitely solves the problem of administering acetyl-salicylic acid in an effective form, being free from the risk of irritating the stomach or bowels or of causing general reactions.

A supply for clinical trial with full descriptive literature sent free on request.

In "Alasil" the desirable therapeutic effects of acetyl-salicylic acid are well exhibited by its calcium acetyl-salicylate moiety, while the presence of "Alocol" (Colloidal Hydroxide of Aluminium), a powerful gastric sedative and antacid, obviates any tendency to gastric irritation. The superior absorbability of "Alasil" over ordinary salicylate compounds and its freedom from the risk of liberating free salicylic acid in the stomach have been well proved by careful experimentation. "Alasil" can be prescribed with perfect safety to patients of all ages and in larger doses than ordinary salicylate compounds.

A. WANDER, LTD., Manufacturing Chemists,
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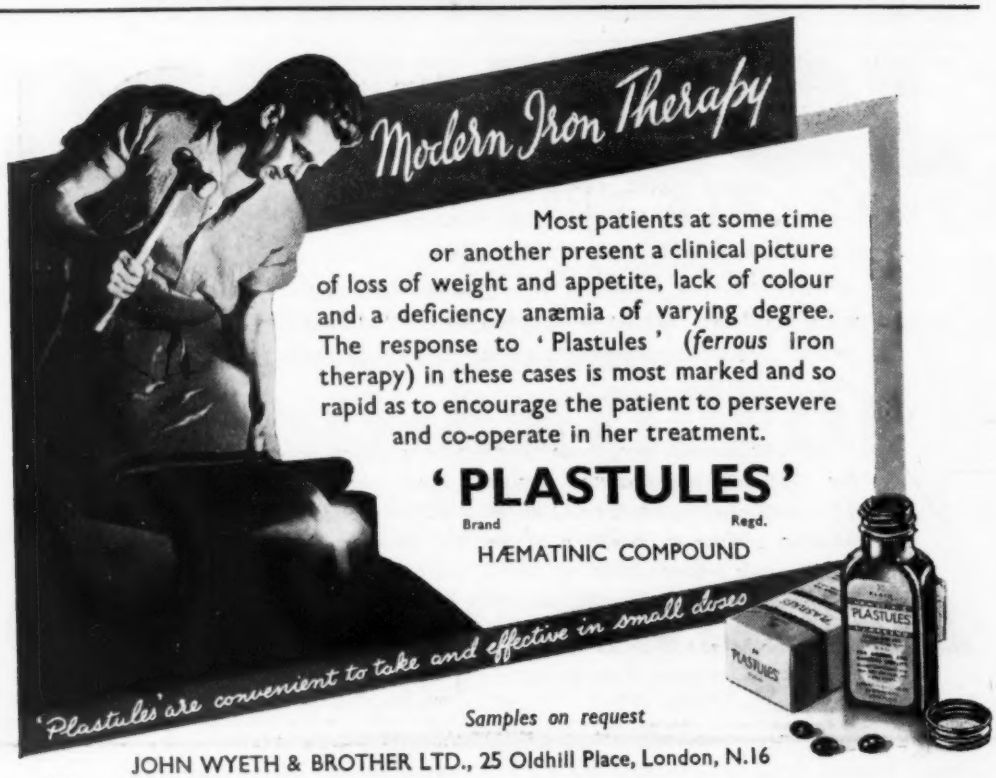
Laboratories and Works: KING'S LANGLEY, HERTS.

ALASIL



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(EVANS)

Iodo-Caffeine is an important pharmacological agent in certain cardiac conditions.

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ASTHMA. Evans' Elixir produces excellent response in asthmatic conditions and may be used over long periods without ill effect. Asthmatic spasm is controlled, and the extra strain upon the heart is also dealt with.

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(Compound Calcium Mandelate B.D.H.)

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The immiscibility (with water) of pure calcium mandelate has been entirely overcome in Mandecal (Compound Calcium Mandelate B.D.H.), an even suspension being produced at once when Mandecal is stirred with water. Further, Mandecal is pleasantly flavoured and is thus free from any properties which tend to preclude its use even during pregnancy when nausea may already be present.

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Elixir of Ammonium Mandelate

For the treatment of Urinary Infections.

A pleasantly flavoured preparation of Ammonium Mandelate which has given excellent results in the treatment of Urinary Infections.

8 oz. bottle - 6/-
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NEOKET (Compound Mandelic Acid Granules) is also available. NEOKET contains no sugar and is equally suitable for diabetic and non-diabetic patients.

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Menopausal Disorders
Amenorrhœa—Infantilism
Dysmenorrhœa

Each tablet of 'Ovendosyn' contains 0·5 mg. STILBŒSTROL and 227 mg. CALCIUM PHOSPHATE. The preparation, therefore, is capable of bringing about all the beneficial effects of the new synthetic œstrogenic analogue and also has the additional advantage of supplying a mineral element that is of the greatest importance—especially in cases of dysmenorrhœa and during the climacteric.

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It has been found recently that 'Ovendosyn' is extremely helpful to women over forty when undergoing abnormal mental or physical strain.

'OVENDOSYN'
BRAND
TABLETS
(STILBŒSTROL and CALCIUM PHOSPHATE)

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Kellogg's All-Bran is most palatable served with plenty of milk or cream. Many like it sprinkled over their favourite breakfast cereal.

THE TREATMENT OF COMMON CONSTIPATION

How can the "bulk-deficient" diet best be corrected?

A DEFICIENCY of "bulk" in the diet is usually the cause of common constipation. When dealing with such a case the question naturally arises: "How can this deficiency be overcome and the daily intake of 'bulk' most conveniently be corrected?"

The difficulty is, of course, that our modern staples contain hardly any of the needed "bulk." Bulk is best supplied by fruit and vegetables, but these foods alone are not a sufficient corrective unless eaten in such unappetisingly large amounts that few patients could be put on such a diet.

That is why many institutional authorities today advise giving a concentrated bulk food of prepared wheat bran in the pleasant form of Kellogg's All-Bran.

A crisp, appetising breakfast food

All-Bran is an attractively crisp cereal which most patients find a pleasant addition to their normal breakfast menu. The fibrous bulk in All-Bran is of the same type as that derived from vegetables and fruit, but has the advantage of being less easily broken down during digestion, and its action is therefore more effective and thorough. All-Bran is, moreover, a richer source of Vitamin B than most of our common foods. It is rich in iron, too. These facts add greatly to its dietetic value.

All-Bran is intended to be eaten daily, like an ordinary breakfast cereal. The great value of All-Bran is that it absorbs water like a sponge. This water-softened mass gently but effectively aids elimination. Eaten regularly, it promotes a thorough evacuation of the bowel-contents in a natural manner that gives relief and freedom from strain.

All-Bran may with advantage be prescribed in all cases where additional bulk in the diet is indicated. It may be eaten with milk or cream or cooked into scones, bread, etc. It may also be sprinkled over salads or other foods. To assure maximum effectiveness plenty of fluid should be taken, preferably between meals. All-Bran is obtainable from all reliable grocers. A packet will be sent free on request to any qualified practitioner. Inquiries should be addressed to: Kellogg Company of Great Britain Ltd., Stretford, Manchester.

TETANUS GAS-GANGRENE ANTITOXIN B.D.H.

Prophylaxis in Road Accidents

In view of the rapid rise of the number of accident cases encountered in civil practice, it has become increasingly necessary to have a potent combined tetanus and gas-gangrene antitoxin available for immediate use.

Tetanus Gas-Gangrene Antitoxin B.D.H. fulfils this need. It contains not less than 3000 international units of tetanus antitoxin in each ampoule and, in addition, antitoxins against organisms of the gas-gangrene group likely to be present in a wound from a road or industrial accident. It is available in ampoules of approximately 20 c.c. ready for instant use.

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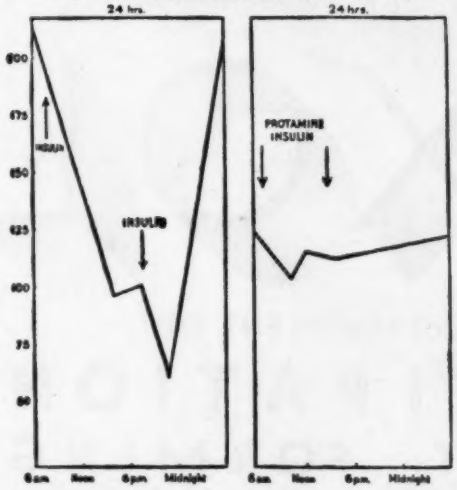
Telephone: Clerkenwell 3000 Telegrams: Tetradome Telex London

V8/B/40

'A.B.' BRAND PROTAMINE INSULIN

(with zinc) SUSPENSION

Effect of Insulin without and with Protamine



The absorption of insulin injected in the form of 'A.B.' Brand Protamine Insulin (with Zinc) Suspension is much prolonged and closely resembles the natural secretion of the pancreatic islets. This insulin has a steady action and exerts a better control than that of ordinary insulin over the carbohydrate metabolism. The number of injections can be reduced, a lower total dosage is usually necessary, and the subjective symptoms of diabetes markedly improve.

40 units per c.cm.
5 c.cm. (200 units) 2/4
10 c.cm. (400 units) 4/6

80 units per c.cm.
5 c.cm. (400 units) 4/6

INSULIN 'A.B.' was the first British insulin offered commercially to the medical profession, and has a world-wide reputation for its strictly safeguarded sterility, its carefully standardised strength, its freedom from toxic reactions and its stability in hot climates.

Full particulars will be sent free to members of the Medical Profession.

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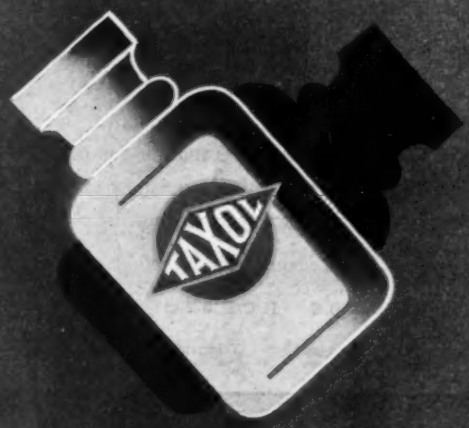

FORMULA

INTESTINAL GLAND EX. . 0gr. 05
BILIARY EXTRACT.....0gr. 10
AGAR AGAR.....0gr. 05
LACTIC FERMENTS....0gr. 05
Flat Tablet 0.35grms.

INITIAL DAILY DOSE
2 Tablets.

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BIOLOGICAL TREATMENT OF

CONSTIPATION

NON-HABIT FORMING

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FOR HOSPITAL AND A.R.P. REQUIREMENTS

For prophylaxis

Ampoules of 1,000 I.U. 1/9 each.
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For curative use

Ampoules of 10,000 I.U. 12/- each.
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Made in England at

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Magnesium Trisilicate

for the treatment of Hyperchlorhydria, Gastric Ulcers and allied complaints.

Gastomag is a highly active antacid and adsorbent preparation of Hydrated Magnesium Trisilicate. It has a strong initial effect followed by a prolonged action lasting for several hours after administration.

Gastomag removes toxic substances from the stomach and intestines and is free from all risk of causing alkalosis.

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Derived from Natural Sources

'CALFOS' corrects in the simplest and most certain way the many distressing conditions that are due to calcium and phosphorus deficiency. Extensive laboratory research and numerous clinical trials show that the administration of 'CALFOS' ensures the absorption of calcium and phosphorus ***in the correct physiological ratio.***

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GENEROUS SAMPLES

Physicians are invited to write for generous supplies and descriptive literature of this new preparation for the promotion of calcium-phosphorus metabolism.

CALFOS LTD., IMPERIAL HOUSE
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. . . AND FIRST OF THESE IS COMFORT

Many diseases of the rectum, especially those of long standing, are amenable only to surgical measures; but, before surgery can be undertaken, symptomatic relief of pain and discomfort must be provided and the field of operation prepared. For these purposes Anusol brand Haemorrhoidal Suppositories are extensively used with satisfaction and safety. They have become intimately associated with the successful treatment of haemorrhoids, anal fissure, proctitis and inflammatory conditions of the ano-rectal region generally. Time after time they have demonstrated permanent results from their systematic use. Nothing is contained in the Suppositories to give a false sense of security. Anusol is also available in Ointment form.

ANUSOL ***Haemorrhoidal Suppositories***

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SONERYL
FOR NATURAL SOUND SLEEP

*SONERYL is one of the safest of the barbiturates. Its high safety factor and almost complete detoxication by the tissues within a few hours renders the dangers of overdosage or of cumulative effects almost negligible.

SONERYL acts rapidly, inducing, within half an hour of administration, from six to eight hours of restorative sleep, followed by refreshed awakening.

Remember—SONERYL FOR SLEEP

Supplied in containers of 25 tablets and boxes of suppositories.

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PROGESTONE

Ampoules, Oil Solution

DESCRIPTION: Pure corpus luteum hormone (progesterone). Biologically assayed and standardized in international units. 1 mg. = 1 international unit.

ACTION: Directly upon the endometrium converting the uterine mucosa from the proliferative phase to the progestational or secretory phase. Opposes the action of the estrogenic hormones and reduces the motility of the uterine muscle.

DIRECTIONS: Injected intramuscularly.

HOW SUPPLIED: In sterile vegetable oil, 1 international unit per 1 cc. ampoule. Boxes of 3 ampoules.

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In Veracolate are presented: the essential bile salts—sodium glycocholate and taurocholate; a laxative for the relief of the constipation, invariably present in biliary insufficiency; and a small dose of capsicum for its carminative and tonic effect upon the intestine.

Veracolate brand Tablets are supplied in bottles of 50, 100 and 500.

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BRAND TABLETS
A TRUE CHOLAGOGUE

IN states of nervous tension there is frequently found an associated impairment of assimilation and nutrition. Conversely it is observed that when measures are taken to provide an easily assimilated food which meets every metabolic need, the patient's condition undergoes definite improvement.

For this purpose, both as an emergency measure and as a regular routine, there is nothing which rivals 'Ovaltine.' This tonic food beverage is a unique combination of malted barley, full cream milk and new-laid eggs from the world-famous 'Ovaltine' Farms. The manufacture is carried out by exclusive extraction processes *in vacuo*, at low temperature, and in such a way that all the important dietetic qualities are fully conserved.

The nutritive and energising constituents of 'Ovaltine' are rapidly assimilated, providing every dietary essential, and at the same time exerting a helpful sedative effect on the nervous system.

'Ovaltine' possesses many advantages, and its outstanding usefulness receives even greater emphasis in war-time practice, both civil and military. 'Ovaltine' was widely used in the war-time hospital service during 1914-1918, both in England and overseas. Supplies are available to hospitals in special packings and at special prices.

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M.299

"The analgesic action of Pyridium is prompt and remarkable"

CONVENIENT—SEDATIVE—SPEEDY—SAFE

PYRIDIUM

Highly effective in genito-urinary infections

Pyridium possesses a striking combination of advantages which give it pre-eminence amongst urinary antiseptics in the treatment of cystitis, pyelonephritis, prostatitis, etc.

1. **Pyridium** is effective by convenient oral administration in tablet form, an advantage for ambulatory treatment.

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3. **Pyridium** has minimal toxicity, and is non-narcotic.

4. **Pyridium** is non-irritative in therapeutic dosage. There has been found a striking absence of genito-urinary irritation following the administration of Pyridium, even in the presence of hyperacute symptoms.

5. **Pyridium** does not require any urinary pH adjustment for its therapeutic action.

6. **Pyridium** administration does not require a special dietary regimen, thus avoiding interference with the patient's customary diet.

To any Medical Practitioner who writes from his present address we shall be pleased to send samples of Pyridium Tablets for clinical trial

MENLEY & JAMES Ltd., 123, Coldharbour Lane, London, S.E.5

Pyridium is the registered trade mark of the Pyridium Corporation of New York to designate its preparation of phenyl-azo-alpha-alpha-diamino-pyridine hydrochloride

In the treatment of pneumonia—

ANTIPNEUMOCOCCIC SERA (RABBIT)

(Refined and concentrated)

Lederle

SINCE ITS INTRODUCTION, type specific antipneumococcic serum for curative use has been produced by the immunisation of horses. The employment of rabbits for this purpose is of recent development.

The rapidity with which rabbits may be immunised has made it practicable to produce antisera for the 'higher types' having a low incidence rate and in particular an antiserum for Type 3.

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Type 1	Type 11	Type 22
2	13	23
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4	15	27
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The dosage requirements for all types are based on the recommendations given for Antipneumococcic Serum (Horse).

The booklet "Antipneumococcic Sera (Rabbit) for the Treatment of 'Pneumococcus Pneumonias'" has recently been issued and will be sent on request.

EXPERIMENTAL BACTERIOSTASIS AND PHAGOCYTOSIS

Pneumococcus Type 7 (mouse virulent)—Inoculum and exposure constant

CONTROL

Pneumococci numerous;
No capsule swelling;
No phagocytosis.

SULFAPYRIDINE
(1 : 10,000)

Pneumococci few;
No capsule swelling;
No phagocytosis.

RABBIT SERUM
(5 units)

Pneumococci evident;
Capsules swollen;
Partial phagocytosis.

SULFAPYRIDINE
(1 : 10,000)
AND SERUM
(5 units)

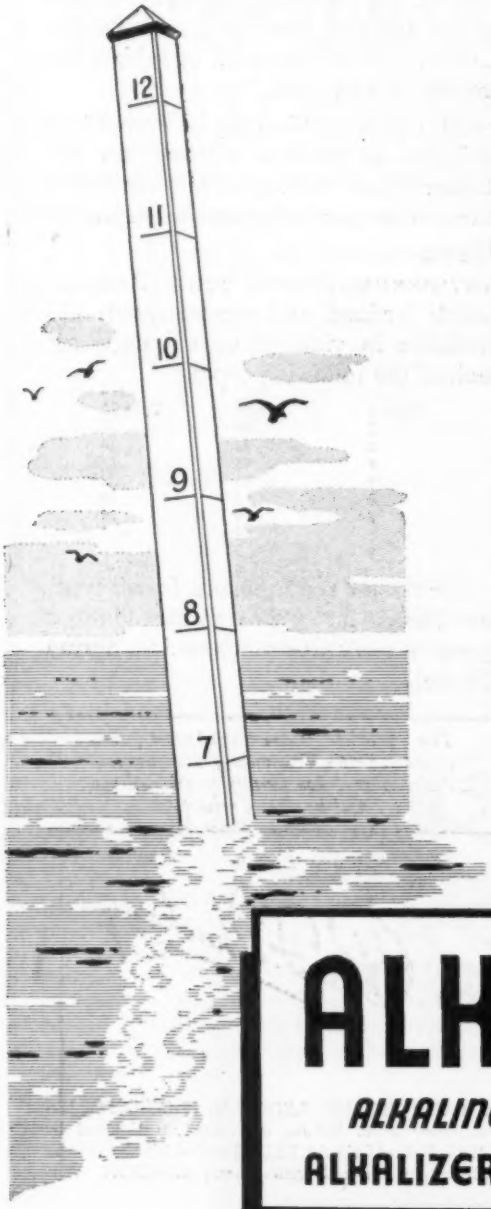
No free pneumococci;
Complete phagocytosis

(Based on bone marrow culture studies of Bullowa and Osgood—Jour. Mich. State Med. Soc., July, 1939, Vol. 38, No. 7, p. 563)

Chas. F. Thackray LTD

A PRODUCT OF LEDERLE LABORATORIES Inc., New York, U.S.A., distributed in England by CHAS. F. THACKRAY LTD., The Old Medical School, LEEDS and 252 Regent Street, LONDON, W.1.

THE RISE AND FALL OF pH 7.4



This figure denotes the normal reaction of the blood. A slight rise may mean alkalosis; any slight fall means acidosis.

When acidosis complicates disease, systemic alkalization becomes a valuable and needed adjunctive treatment. ALKA-ZANE accomplishes this efficiently and with desirable promptness, because it is composed of those minerals which constitute the alkali reserve: sodium, potassium, calcium and magnesium, in the form of citrates, carbonates and phosphates. No sulphates, lactates or tartrates, and no sodium chloride are present in Alka-Zane.

Alka-Zane is not only palatable, easily assimilable, but is so neutralized that no interference with digestion follows its administration as with a single alkali.

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ALKA-ZANE

ALKALINE PHOSPHATES COMPOUND

ALKALIZER · ANTACID · DIURETIC

IN ASTHENIC and DEPRESSIVE STATES

One of the most interesting applications of 'Benzedrine' Brand Tablets is with that ill-defined group of non-psychopathic cases with persistent functional symptoms of apathy, weakness, exhaustion, and undue fatigability.

The administration of 'Benzedrine' Brand Tablets is, in most instances, followed by "a marked lessening of fatigue, an increase in mental and physical activity, and a distinct feeling of exhilaration" (*J.A.M.A.*, 108:531, Feb. 13, 1937). In addition, therefore, to its value in various clinical conditions, the drug has wide potentialities as an emergency measure to increase energy and mental alertness during periods of prolonged stress. The tablets should, however, be used only under medical supervision, and their suitability, as well as their correct dosage, must be determined for each individual.

Main indications: **Depressive and Asthenic States, Post-encephalitic Parkinsonism, Narcolepsy, Alcoholism, Dysmenorrhœa, Sea-sickness**

Medical officers and other physicians are invited to write from their present addresses for samples and essential descriptive literature. Every such request should be signed personally

'BENZEDRINE'

BRAND

TABLETS

Each tablet contains 5 mg. β-aminoisopropylbenzene sulphate (amphetamine sulphate)

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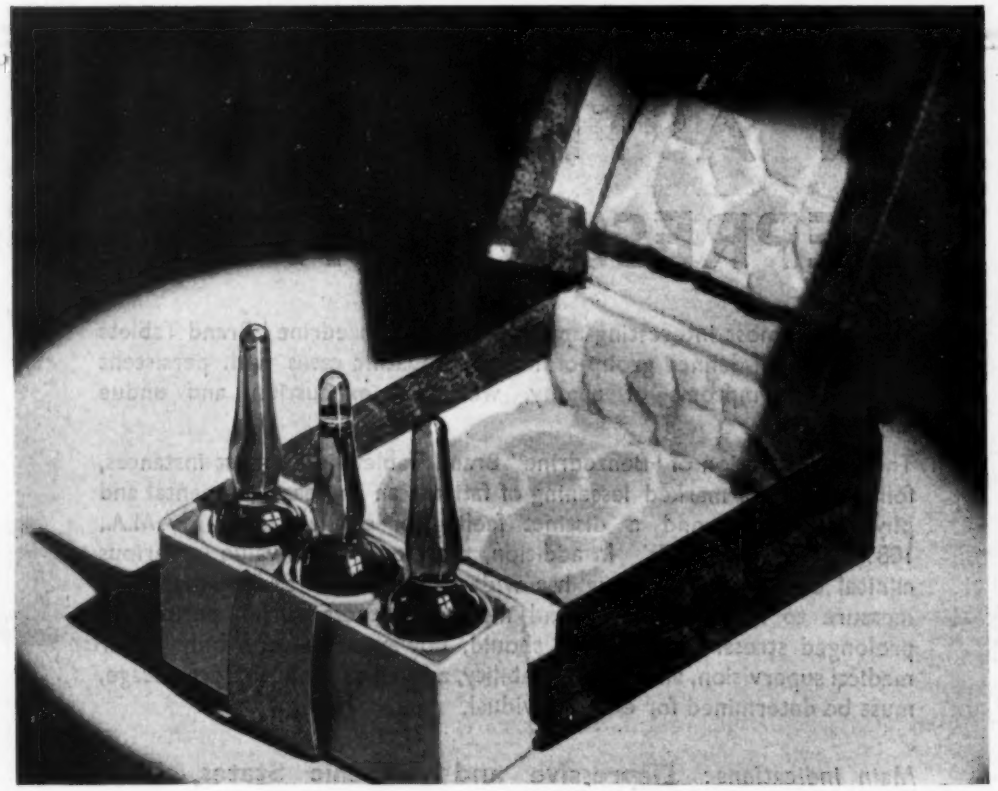
for Smith, Kline & French Laboratories, owners of the Registered Trade Mark 'Benzedrine'



ANAHÆMIN B.D.H.

In Nutritional Macrocytic Anæmias

Nutritional macrocytic anæmias are stated to be due primarily to a deficiency of Castle's extrinsic factor. It is logical, therefore, to assume that they will respond to the exhibition of Anahæmin — the product of interaction of intrinsic and extrinsic factors.

Convincing evidence of the value of Anahæmin in nutritional anæmias is provided in a report (Response of Nutritional Macrocytic Anæmia to Anahæmin, *Lancet*, August 12th, 1939, p. 360), in which it is shown that Anahæmin is at least as active in its curative effect as less highly-purified preparations of liver.

In other words, Anahæmin is of high and unvarying activity not only in pernicious anæmia which is due to lack of intrinsic factor, but to nutritional anæmias which are due to lack of extrinsic factor. This latter fact accounts for the restorative effect produced upon patients after operation or who for one reason or another are maintained on a restricted dietary.

Literature on request

THE BRITISH DRUG HOUSES LTD. LONDON N.1

Telephone: Clerkenwell 3000 Telegrams: Tetradome Telex London

An/E/63a

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Lixen Elixir & Lozenges

Safe, Gentle, and Palatable.

Prepared from senna pods by a special cold process. The absence of an after-constipating effect gives it a special value in habitual constipation, and its gentle, though efficient, action, together with its pleasant flavour, makes it particularly acceptable to women, children, elderly and delicate persons, and convalescents, for whom the finding of a satisfactory aperient is often difficult.

LIXEN ELIXIR

In bottles of 2 oz., 4 oz., 8 oz. and 16 oz.
In bottles of 40 and 80 oz. for dispensing.

LIXEN LAXATIVE LOZENGES

In tins of 12 and 24, and bottles of 100.
In bottles of 500 for dispensing.

Bynogen

Numerous reports show its success in functional nervous disorders with disturbance in nutrition. Bynogen contains the glycerophosphates of sodium, calcium, magnesium, and iron, soluble milk proteins, and soluble extract of malt and whole wheat. The large proportion of casein, besides the glycerophosphates, is a source of phosphorus. The mineral elements play important parts in metabolism.

Bynogen is an excellent War-time Nerve Tonic.

In trial tins, 1/9. In bottles at 3/-, 5/- and 9/-

Allenburys Beef Juice

In gastro-intestinal disorders it is a primary consideration that the food should be light and unirritating. In gastric and duodenal ulceration and in the dyspepsias, Allenburys Beef Juice may safely and advantageously be given, where beef tea would often increase the pain and have a harmful effect. Because of its high protein and vitamin content it provides a valuable means of keeping up a patient's strength.

In bottles at 2/- and 3/6.

Haliborange

The nicest way of taking the natural vitamins A, C, and D.

Tasteless and odourless halibut-liver oil with additional vitamin D and concentrated orange juice.

One teaspoonful is equivalent in vitamins A and D to one teaspoonful of cod-liver oil, and in vitamin C to two teaspoonfuls of fresh orange juice.

An excellent addition to the diet of babies as a precaution against rickets and scurvy. For older children, adolescents, or adults, a prophylactic vitamin tonic.

In 5, 10 and 40 oz. bottles.

Descriptive literature of any of these products will be sent post free on application.

ALLEN & HANBURYS LTD.
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A Definite Objective Attained

● Gratifying clinical results are promptly observed when 'Lextron' brand liver-stomach concentrate with iron and Vitamin B complex is prescribed in the anemias. 'Lextron' contains antianemic principles effective in both pernicious and related macrocytic anemias and microcytic or secondary anemias. Red cell formation and hemoglobin production are stimulated by these factors.

The distinctive reddish-brown colour of 'Pulvules' 'Lextron' identifies the product, and a further mark of identification is afforded by the trade mark 'Pulvules' brand filled capsules on the upper half of each capsule. Literature furnished upon request.

Supplied through the drug trade in bottles of 42, 84, and 500 capsules.

ELI LILLY AND COMPANY LIMITED
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"In emergencies, the readiness and rapidity of 'TANNAFAX' are invaluable"

TANNIC ACID

The recognised treatment for **BURNS, SCALDS** *and* **ABRASIONS**

TRADE MARK **'TANNAFAX'** BRAND

TANNIC ACID JELLY

Saves Time . Lessens Danger

Always ready for immediate application.

Free from oil or grease.

May be removed, if necessary, from the injured surface with the minimum of pain to the patient.

Collapsible tubes of 4 oz. (113 gm. approx.) and 20 gm. (3/4 oz. approx.)

Literature to Medical Men on request

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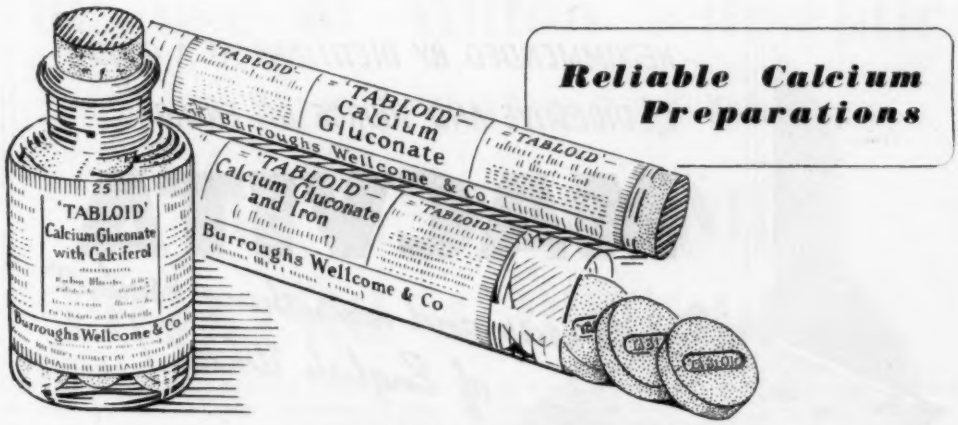

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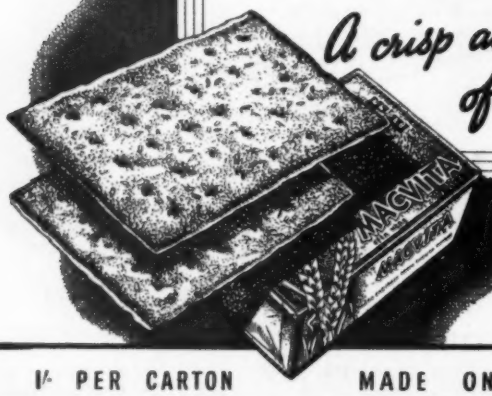

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Lister Memorial Lecture, Royal College of Surgeons of England, April 5th, 1939.

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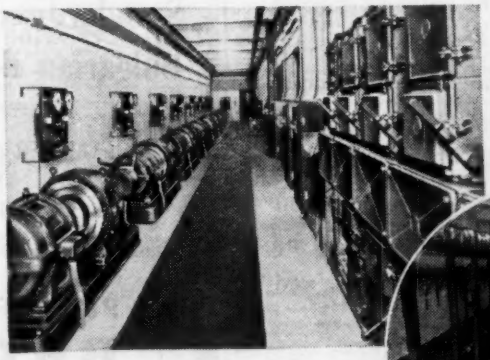

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January, 1940.

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H. S. STURGESS, Secy.

'Grams: "ABSTAIN, LONDON"

CAVENDISH NURSES

Special Nurses for Nerve and Mental Cases.

MALE and FEMALE

A very convenient form of telephone message pad sent free on application to the Secretary.

Head Office: 54, BEAUMONT ST., LONDON, W.1 (late 43, New Cavendish St., London, W.1).

Branches:—MANCHESTER: 176, Oxford Road. GLASGOW: 28, Windsor Terrace. DUBLIN: 23, Upper Baggott Street.

Superior trained Nurses for Medical, Surgical, Mental Dipsomania, Travelling and all cases. Nurses reside on the premises and are always ready for urgent calls Day and Night. Skilled Masseuses, Masseurs, and good Valet attendants supplied. *Terms from £3 13 6. Apply to the Secretary or Lady Supt.*

Telegrams: Tactear, London. :: Surgical, Glasgow. Tactear, Manchester. :: Tactear, Dublin.

Telephones: London, 1277 Welbeck (2 lines). Manchester, 3152 Ardwick. Glasgow, 477 Douglas Dublin, 62005.

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29, YORK ST., BAKER ST., LONDON, W.1

Established 34 years.

Permanent Staff of Resident Male Nurses

We supply fully-trained Male Nurses for all cases. Thoroughly experienced men with special training for mental work.

W. J. HICKS, *Secretary.*

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A PRIVATE MENTAL HOME situated in 14 acres of well-wooded grounds. For Ladies and Gentlemen suffering from Nervous or Mental Illness. Voluntary Patients, Temporary Patients, and Patients under Certificates are admitted for Treatment. Fees: from 4 guineas a week upwards, according to requirements. A few vacancies exist for Ladies and Gentlemen at reduced fees on the recommendation of the Patient's own Physician.

Apply to Dr. J. A. SMALL.

Telephone: 80 Norwich. Telegrams: Small, 80 Norwich.

CHISWICK HOUSE,

PINNER, MIDDLESEX.

Telephone: PINNER 234.

A Private Hospital for the Treatment and Care of Mental and Nervous Illnesses in both Sexes.

A modern country house, 12 miles from Marble Arch, in attractive and secluded surroundings. Fees from 10 guineas per week inclusive. Cases under Certificate, Voluntary and Temporary Patients received for treatment.

DOUGLAS MACAULAY, M.D., D.P.M.

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TUNBRIDGE WELLS - - KENT

is situated in a safety zone

Healthy children are received from 1 week to 8 years of age.
Fully trained NURSING and TEACHING Staff.
Beautiful grounds—very good health record.
Highly recommended by doctors and parents all over the world.
Excellent air-raid shelters and other precautions taken.
Nervous and delicate infants and children are also accepted and receive individual care and attention. The quiet situation of the College among fields and woods is especially suitable.

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Tel. No.: T. W. 595.

ST. ANDREW'S HOSPITAL

FOR NERVOUS AND MENTAL DISORDERS,

NORTHAMPTON

FOR THE UPPER AND MIDDLE CLASSES ONLY.

PRESIDENT: THE MOST HON. THE MARQUESS OF EXETER, K.G., C.M.G., A.D.C.

MEDICAL SUPERINTENDENT: THOMAS TENNENT, M.D., M.R.C.P., D.P.H., D.P.M.

This Registered Hospital is situated in 130 acres of park and pleasure grounds. Voluntary patients, who are suffering from incipient mental disorders or who wish to prevent recurrent attacks of mental trouble; temporary patients, and certified patients of both sexes are received for treatment. Careful clinical, bio-chemical, bacteriological, and pathological examinations. Private rooms with special nurses, male or female, in the Hospital or in one of the numerous villas in the grounds of the various branches can be provided.

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This is a Reception Hospital in detached grounds with a separate entrance, to which patients can be admitted. It is equipped with all the apparatus for the complete investigation and treatment of Mental and Nervous Disorders by the most modern methods: insulin treatment is available for suitable cases. It contains special departments for hydrotherapy by various methods, including Turkish and Russian baths, the prolonged immersion bath, Vichy Douche, Scotch Douche, Electrical baths, Plombieres treatment, etc. There is an Operating Theatre, a Dental Surgery, an X-Ray Room, an Ultra-violet Apparatus, and a Department for Diathermy and High-frequency treatment. It also contains Laboratories for bio-chemical, bacteriological, and pathological research. Psychotherapeutic treatment is employed when indicated.

MOULTON PARK

Two miles from the Main Hospital there are several branch establishments and villas situated in a park and farm of 650 acres Milk, meat, fruit, and vegetables are supplied to the Hospital from the farm, gardens, and orchards of Moulton Park. Occupational therapy is a feature of this branch, and patients are given every facility for occupying themselves in farming, gardening, and fruit growing.

BRYN-Y-NEUADD HALL

The seaside house of St. Andrew's Hospital is beautifully situated in a Park of 330 acres, at Llanfairfechan, amidst the finest scenery in North Wales. On the North-West side of the Estate a mile of sea coast forms the boundary. Patients may visit this branch for a short seaside change or for longer periods. The Hospital has its own private bathing house on the seashore. There is trout-fishing in the park.

At all the branches of the Hospital there are cricket grounds, football and hockey grounds, lawn tennis courts (grass and hard courts), croquet grounds, golf courses, and bowling greens. Ladies and gentlemen have their own gardens, and facilities are provided for handicrafts, such as carpentry, etc.

For terms and further particulars apply to the Medical Superintendent (TELEPHONE: No. 2356 and 2357 Northampton), who can be seen in London by appointment.

PECKHAM HOUSE, 112, Peckham Road, London, S.E.15

Telegrams: "Allevisted, London." **Telephones: Rodney 2641 and 2642.**

The above House is for the care and treatment of persons suffering from mental diseases and nervous disorders. Certified voluntary and temporary patients are received. Separate houses for treatment and accommodation of special cases adjoin the Institution. Occupational therapy, physical drill, and other forms of modern treatment. There is a seaside branch, Kearsney Court, near Dover, to which patients may be sent for treatment or on holiday. Motor drives are arranged when required. Tennis courts. Entertainments, dances, and indoor amusements held throughout the year. Terms from £3 3s. per week. Illustrated prospectus and further particulars can be obtained from the MEDICAL SUPERINTENDENT.

CAMBERWELL HOUSE

Telegrams: "PSYCHOLIA, LONDON." 23, PECKHAM RD., LONDON, S.E.5. Telephone: Rodney 4212 (2 lines).

For the treatment of MENTAL DISORDERS.

Also completely detached Villas for Mild Cases, with private suites if desired. Voluntary Patients received. Twenty acres of Grounds. Hard and Grass Tennis Courts, Putting Greens, Bowls, Croquet, Squash Rackets, Recreation Hall with Badminton Court, and all indoor amusements, including Wireless and other Concerts, Occupational Therapy, Calisthenics, and Dancing Classes. X-ray and Actino-therapy, Prolonged Immersion Baths, Operating Theatre, Pathological Laboratory, Dental Surgery, and Ophthalmic Department. Chapel. **Shock and also modified Insulin Therapy.**

Senior Physician: Dr. HUBERT JAMES NORMAN, assisted by a resident Medical Staff, and visiting Consultants.

An illustrated Prospectus, giving fees which are strictly moderate, may be obtained upon application to the Secretary.

The Convalescent Branch is Hove Villa, Brighton, and is 200 feet above sea level.

THE COTSWOLD SANATORIUM

First opened in 1898 and rebuilt in 1925 on the Cotswold Hills seven miles from Cheltenham, for the Treatment of Pulmonary and all other forms of Tuberculosis. Aspect S.S.W., sheltered from North and East, elevation 800 feet. Pure bracing air, SPECIAL TREATMENT by artificial PNEUMOTHORAX (X-ray controlled). TUBERCULINS, and ULTRA-VIOLET RAYS is available when necessary without extra charge. X-RAY plant, Fully Equipped Dental Department, Electric Light Radiators, hot and cold basins and Wireless in all rooms. Up-to-date drainage. Full day & night Nursing Staff. **Terms: 5 to 7½ Guineas a week inclusive.**

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FOR THE TREATMENT OF PULMONARY TUBERCULOSIS

Well situated on high ground and surrounded by pines and heather.
All rooms are fitted with electric light, wash basins with hot and cold water, and radiators.
X ray plant. Day and night nursing staff.

RESIDENT MEDICAL SUPERINTENDENT: Dr. H. O. BLANFORD, to whom application for admission can be made.

MUNDESLEY SANATORIUM

NORFOLK

Resident Physicians:

S. VERE PEARSON, M.D. (Cantab.), M.R.C.P. (Lond.).
E. C. WYNNE-EDWARDS, M.B. (Cantab.), F.R.C.S. (Edin.).
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For all information apply: THE SECRETARY.

Telephone: Mundesley 94 and 95 (2 lines)

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A PRIVATE NURSING HOME for the Treatment of TUBERCULOSIS (both sexes). Standing in own grounds 200 feet above sea level. Sheltered from north and east. Outstanding sea and land views all rooms. Individual treatment, complete privacy. Revolving modern chalets. Electric light and fires and radio (earphones) all rooms and chalets. Fully qualified nursing staff. A "home from home." Resident proprietors.

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NEWTON-LE-WILLOWS, LANCASHIRE.

For the reception and treatment of PRIVATE PATIENTS of both sexes of the UPPER AND MIDDLE CLASSES suffering from Mental and Nervous Disorders, Alcoholism and Drug addiction, either voluntarily, temporarily, or under certificate. Patients are classified in separate buildings according to their mental condition. Situated in park and grounds of 400 acres. Self-supported by its own farm and gardens in which patients are encouraged to occupy themselves. Every facility for indoor and outdoor recreation. For terms, prospectus, etc., apply MEDICAL SUPERINTENDENT. *'Phone:* Ashton-in-Makerfield 7311. *Tele. Address:* Street, Ashton-in-Makerfield.

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A Clinic for the diagnosis and treatment of Internal Diseases (except Mental or Infectious Diseases).

The Clinic is provided with a staff of doctors, technicians and nurses.

The surroundings are beautiful. The climate is mild. There is central heating throughout. The annual rainfall is 30·5 inches, that is, less than the average for England.

The inclusive weekly fees are from 15 guineas a week, according to the room occupied; rooms with bathroom are from 21 guineas. An examination and consultation fee of 15 guineas is charged on the first visit only.

SPECIAL FEE FOR INVESTIGATION ONLY—30 GUINEAS, including stay up to 10 days and report to doctor. For particulars, apply to

THE SECRETARY, Ruthin Castle, North Wales.

Telegrams: Castle, Ruthin. *Telephone:* Ruthin 66.

THE RESIDENTIAL TREATMENT OF ALCOHOLISM & DRUG ADDICTION

RENDLESHAM HALL (Postal Address), WOODBRIDGE, SUFFOLK

THE Government have requisitioned the Hall. Consequently we are unable to take Patients, at present.

The unique facilities of Rendlesham Hall with its 450 acres of Gardens and Park, and the excellent results obtained by the treatment during the last 17 years have led the Directors to decide to re-open as soon as the Government vacate. Due notice will be given.

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(Formerly the EARLSWOOD ASYLUM.) PATRON: H.M. THE KING.

FOR THOSE REQUIRING CONTROL with EXPERT SUPERVISION and needing SPECIAL TRAINING in useful occupations, *SCHOOLS, FARMING, and various TRADE WORKSHOPS.*

Inclusive fees from £110 p.a. *THOSE UNABLE TO PAY FULL FEES* admitted by votes of subscribers with part payment towards cost.

RECREATIONS: Outdoor games. MALE STAFF BAND for Concerts, Dancing, etc.

Apply: THE MEDICAL SUPERINTENDENT, Earlswood, Redhill, Surrey. *'Phone:* REDHILL 344.

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DAVOS-PLATZ, SWITZERLAND

First-class house, 5,150 ft. above sea-level. Large park and wood belonging to the sanatorium. Terms for board and residence, including room, medical treatment, etc., from Frs. 16.– per day. Prospectus.

Medical Superintendent, F. BAUER, M.D.

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A Private Hospital for the Care and Treatment of those of both sexes suffering from MENTAL DISORDERS.

Extensive grounds. Detached Villas. Chapel. Garden and Dairy Produce from own farm. Terms very moderate.

CONVALESCENT HOME AT BOURNEMOUTH Detached Villas standing in 12 acres of ornamental grounds, with tennis courts, etc., which Voluntary, Temporary or Certified Patients may visit by arrangement for long or short period.

Illustrated Brochure on application to the Medical Superintendent. The Old Manor, Salisbury. Telephone: Salisbury 3216 and 3217.

CHEADLE ROYAL HOSPITAL, Cheadle, Cheshire.

This REGISTERED HOSPITAL, with a SEASIDE BRANCH at Colwyn Bay, N. Wales, is for the treatment and care of those of the Upper and Middle Classes suffering from MENTAL AND NERVOUS DISEASES.

The Hospital is governed by a COMMITTEE, appointed by the TRUSTEES of the Manchester Royal Infirmary.

In addition to the Main Buildings there are separate villas. Extensive grounds. Hard and grass tennis courts, cricket and croquet grounds, and a court for badminton. There are also wireless installations. Golf may be had within easy distance. Occupational Therapy.

VOLUNTARY, TEMPORARY, AND CERTIFIED PATIENTS received.

The Hospital is nine miles from Manchester, 50 minutes by rail from Liverpool, and 3½ hours from London.

For terms and further particulars apply to the Medical Superintendent, who may be seen in Manchester BY APPOINTMENT

Telephone: Gatley 2231 (3 lines).

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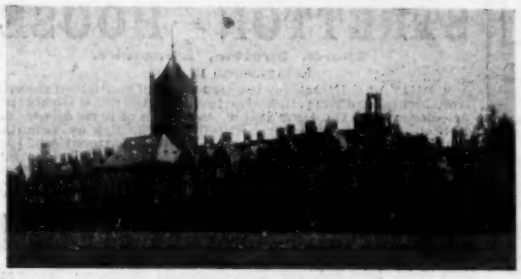
This Sanatorium is established for the treatment of Tuberculosis of the Lungs and the Pleural Cavities. It is situated in the midst of a large area of park-land at a height of 450 feet above sea-level, on the South West slopes of mountains rising to over 1800 feet, which protect it from north and east winds and provide many miles of graduated walks with magnificent views. Average rainfall 29·57 per annum. Full day and night Nursing Staffs. X-Ray plant. Every facility for Artificial Pneumothorax and for operations on the chest. Electric Lighting. Central Heating. Home Farm. Grade A Milk from T.T. Herd.

For particulars apply to Medical Superintendent.

H. MORRESTON DAVIES, M.D., M.Ch. (Cantab.), F.R.C.S., Llanbedr Hall, Ruthin, N. Wales.

HOLLOWAY SANATORIUM VIRGINIA WATER



A Registered Hospital for the Treatment of MENTAL DISORDERS of the EDUCATED CLASSES. Founded by THOMAS HOLLOWAY in 1885.

This Institution is situated in a beautiful and healthy locality within easy reach of London. It is fitted with every comfort. Patients can have Private Bedrooms and Special Nurses as well as the use of General Sitting Rooms, at moderate rates of payment. Voluntary Patients can be admitted.

There is a Branch Establishment at CANFORD CLIFFS, BOURNEMOUTH, where Patients can be sent for a change and be provided with all the comforts of a well-appointed home.

For Terms, apply to—

The RESIDENT MEDICAL SUPERINTENDENT, St. Ann's Heath, Virginia Water, SURREY.

CRICHTON ROYAL, DUMFRIES

For NERVOUS AND MENTAL DISORDERS

Separate Villa for patients suffering from the effects of alcoholism and drug addiction. Every facility for complete investigation and individual treatment on the most modern lines. Fully equipped gymnasium, golf course, and indoor swimming pool. Specially trained occupational and recreational therapists. Private rooms, suites, and special nurses available. As the hospital is well endowed terms are exceptionally moderate, e.g., First Department from 3 guineas per week, Second Department, 2 and 2½ guineas per week. Voluntary and certified patients are received. Medical Certificates given anywhere in the British Isles are valid for admission of patients. *For prospectus, necessary forms, and further information apply to:—*

Physician Superintendent, P. K. McCowan, J.P., M.D., F.R.C.P., D.P.M., Barrister-at-Law. *Tel.* Dumfries 1119

COURT HALL, KENTON, near EXETER

FOR THE TREATMENT OF EIGHT LADIES, VOLUNTARY, TEMPORARY AND CERTIFIED PATIENTS

CLIFFDEN, TEIGNMOUTH

FOR EARLY AND CONVALESCENT CASES

Recreational Therapies are held daily by skilled Leaders

The house stands high with spacious balconies and extensive views of the South Devon Coast. Beautiful garden. Own Dairy in 25 acres. Private road to beach. There is also a charming house, **EBWORTHY, MANATON, DARTMOOR,** situated in 20 acres, 1100 ft. up for bracing moorland air.

Resident Physicians—BERTHA M. MULES, M.D., B.S. ANNE S. MULES, M.R.C.S., L.R.C.P.

Telephones—STARCROSS 59 and TEIGNMOUTH 289

THE COPPICE, NOTTINGHAM.

HOSPITAL FOR MENTAL DISEASES.

President: The Right Hon. LORD BELPER.

This Institution is exclusively for the reception of a limited number of PRIVATE PATIENTS of both sexes, of the UPPER and MIDDLE CLASSES, at moderate rates of payment. It is beautifully situated in its own grounds, on an eminence a short distance from Nottingham, and commands an extensive view of the surrounding country; and from its singularly healthy position and comfortable arrangements affords every facility for the relief and cure of those mentally afflicted. Voluntary and Temporary Patients received. Occupational Therapy. For terms, &c., apply to the Medical Superintendent.

Telephone: 64117 Nottingham.

MALLING PLACE, KENT

For LADIES and GENTLEMEN of Unsound Mind.

Terms moderate. Apply to Resident Medical Superintendent. Telegrams: ADAM WEST MALLING Telephone No 2 MALLING.

FENSTANTON, at "FIVE DIAMONDS," Chalfont St. Giles, Bucks.

A Private Home for the Care and Treatment of a limited number of LADIES with Mental and Nervous Disorders. Certified, Voluntary, and Temporary Patients received. Mansion with 12 acres of grounds. (*See Medical Directory*, p. 2312.) Apply Resident Physician. Telephone: Little Chalfont 2046. Station: Chalfont and Latimer.

CITY OF LONDON MENTAL HOSPITAL

Near DARTFORD, KENT.

Ladies and Gentlemen received for treatment under certificates, and without certificates as either VOLUNTARY or TEMPORARY PATIENTS, at a weekly fee of £2 9s., and upwards.

HOME for EPILEPTICS, MAGHULL

(Near Liverpool)

FARMING and OPEN AIR OCCUPATION for PATIENTS

A few vacancies in 1st and 2nd Class Houses.

FEES:

1st Class (men only) from £5 5s. p.w. upwards.

2nd Class (men and women) 32/- p.w.

For further particulars apply Secretary,

C. EDGAR GRISEWOOD, A.C.A., 20 Exchange St. East, Liverpool

Littleton Hall, Brentwood, Essex.

(18 miles from London.) 400 feet above sea.

A PRIVATE HOME for LADIES situated in large grounds. Voluntary, temporary, or certified cases received. Apply to Dr. HAYNES. Tel.: Brentwood 45.

Telegraphic Address, "Relief, Old Catton." Telephone: 290 Norwich.

NERVOUS & MENTAL AFFECTIONS

Ladies only received

The Grove, Old Catton, Norwich.

A High-class Home for the Curative Treatment of Nervous Affections. Voluntary Boarders are also received without certificates.

For full particulars apply to the Misses MCLINTOCK or to Dr. S. BARTON, 34, Surrey-street, Norwich, Visiting Physician.

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An attractive and comfortable PRIVATE HOME. Beautifully situated in its own grounds, 400 feet above sea level. Exceptionally healthy air and position affords every facility for convalescence. Foam Baths, Billiards, Squash Racquets, Lawn Tennis, Croquet, Bowls, Farm Produce, &c.

Treatment for Ladies and Gentlemen suffering from Insomnia, Functional Nervous Disorders, Alcohol and Drug Habits, Chronic Heart and Kidney Diseases, also Convalescing Cases.

Telephone: Essenden 212. *Apply*, J. C. BAKER, M.B.

NORTHUMBERLAND HOUSE

GREEN LANES,

FINSBURY PARK, N.4

A PRIVATE HOSPITAL for the treatment of mental and nervous illnesses. Conveniently situated and easy of access from all parts. Occupational Therapy, Psychotherapy, and other modern forms of treatment. A.R.P. Shelters.

Telephone: Stamford Hill 2688.

For further particulars apply to the MEDICAL SUPERINTENDENT

STRETTON HOUSE,

Church Stretton, Shropshire.

ESTABLISHED IN 1853.

A PRIVATE HOME for the treatment of gentlemen suffering from Mental and Nervous illness, including the allied Disorders of Alcoholism and the Drug Habit. All types of early Mental and Nervous Cases are received without Certificates as Voluntary Patients under the provisions of the Mental Treatment Act, 1930. Bracing hill country. See "Medical Directory," p. 2368.—Apply to the Medical Superintendent. 'Phone 10 P.O., Church Stretton.

BOURNEMOUTH HYDRO

Ultra-Violet, Infra-Red, and Ultra-short-wave Diathermy Treatments. Pistany, Pyretic, Nauheim, and Medicated Baths. Remedial Exercises; Massage; and Inhalation Therapy. Plombières and Vichy Douches.

Resident Physician. Certificated Staff. Telephone: 341.

..... Let them recuperate in serene & healthful surroundings

For many years Bournemouth has enjoyed the reputation of being one of the finest centres for convalescence in the British Isles.

In times like these, Bournemouth is pre-eminently suitable. The balmy, resinous air, long hours of sunshine and sheltered position provide the most favourable environment; while the social life and activities, for which Bournemouth is famous the whole year round, stimulate interest and create in the patient that will to recovery which is more than half the battle.

SEND THEM TO

BOURNEMOUTH

Write for the "Book of Bournemouth" and any other information to the Publicity Manager, Room 15, Town Hall, Bournemouth.

PINE, VAPOUR, AND SWIMMING BATHS, ALL OF SEA WATER, ARE AVAILABLE AT THE PIER APPROACH BATHS DURING THE WINTER

THE RETREAT, YORK

The Pioneer Hospital for the humane treatment of those suffering from Nervous and Mental Disorders, opened 1796.

This Hospital, administered by a Committee of the Society of Friends, combines what is best in the newer methods of investigation and treatment of nervous and mental illness with a sympathetic and friendly atmosphere.

The hospital, of 200 beds, admitted last year 110 patients, of whom 79 entered on a voluntary basis. It cannot be too widely known that much curative work is accomplished in modern mental hospitals today, and it is not generally appreciated that the recovery rate compares very favourably with that of General Hospitals.

For information and terms of admission, apply to

THE PHYSICIAN SUPERINTENDENT

Dr. Arthur Pool.

UNIVERSITY EXAMINATION POSTAL INSTITUTION

Founded in 1882

17, RED LION SQUARE, LONDON, W.C.1

EXPERT PREPARATION FOR ALL MEDICAL EXAMINATIONS

POSTAL COURSES : PRIVATE TUITION
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MEDICAL PROSPECTUS (47 pp.)

CONTENTS: The method and the cost of entering the Medical Profession. *Particulars of all Medical Examinations*, Postal Courses, and Oral Classes. Suggestions for the Higher Medical and Surgical Examinations. Suggestions for the Special Diploma Examinations. Refresher Courses. Openings for Women. Hints for writing theses.

Medical Prospectus gratis along with list of Tutors, &c., on application to the Principal, 17, Red Lion-square, London, W.C.1. (Telephone: HOLborn 6313.)

Metropolitan Borough of Stepney.

ASSISTANT TUBERCULOSIS OFFICER AND ASSISTANT MEDICAL OFFICER OF HEALTH.

Applications are hereby invited for the appointment of an Assistant Tuberculosis Officer and Assistant Medical Officer of Health in the Borough. The person appointed will also be required to carry out such other duties as the Council may from time to time direct.

The person to be appointed must possess the Diploma of Public Health as well as the qualifications prescribed by the Local Government (Qualifications of Medical Officers and Health Visitors) Regulations, 1930, with not less than two years' experience in a sanatorium or other tuberculosis institution or otherwise in whole-time work in relation to tuberculosis. He should be experienced in artificial pneumothorax treatment.

The salary will be at the rate of £600 per annum, rising by annual increments of £25 to a maximum salary at the rate of £700 per annum. The salary will be an inclusive one.

The person to be appointed will be required to devote the whole of his time to the duties of the office, act under the direction and supervision of the Medical Officer of Health, and pass an examination by the Council's Medical Referee as to constitutional fitness. The appointment will also be subject to the provisions of the Stepney Borough Council (Superannuation) Acts, 1905 to 1931, and to the Council's bye-laws. It will, moreover, be for a probationary period of six months in the first instance and, subject thereto, the person appointed will be required to give an undertaking to remain in the Council's service for a period of two years from the date of appointment. The appointment will also be subject to the obtaining of any necessary consents.

Forms of application may be obtained from the undersigned, to whom they must be returned in envelopes endorsed "Appointment of Assistant Tuberculosis Officer" so as to reach him not later than 12 NOON on Saturday, the 27th day of January, 1940.

Canvassing members or officers of the Council is strictly prohibited and will disqualify candidates. The Council do not bind themselves to appoint any of the candidates.

By Order.

J. E. ARNOLD JAMES, Town Clerk.

Municipal Offices, Raine-street, Wapping-lane, London, E.1, 11th January, 1940.

The Royal Waterloo Hospital for CHILDREN AND WOMEN,

Waterloo-road, London, S.E.1.

There is a vacancy for a HOUSE PHYSICIAN (Male) at the above Hospital. The applicant appointed would be required to work in the Out-patient Department and would also have charge of medical beds under the Honorary Medical Staff. Salary is at the rate of £100 per annum and the appointment is for six months in the first instance.

Application should be made to the undersigned, enclosing copies of three testimonials, not later than January 23rd.

J. H. TEASDALE, Secretary.

Saint Mary's Hospital for Women AND CHILDREN, Plaistow, E.13.

Applications are invited for the post of RESIDENT HOUSE PHYSICIAN (Male or Female). The appointment is for six months. Board and residence are provided. Salary at the rate of £150 per annum, including £5 allowance for laundry. Personal canvassing not desired.

Applications, with copies of three recent testimonials, to be sent to the undersigned not later than January 29th.

A. ERNEST WILKES, Secretary.

The Hostel of St. Luke (Clergy Nursing Home), 14, Fitzroy-square, London, W.1.

The Committee of Management invite applications for the post of RESIDENT MEDICAL OFFICER (Male) to the above Hostel.

Candidates must have had previous experience as House Surgeon at a General Hospital. The appointment is for six months, and may be renewable for a further period of six months. Salary at the rate of £200 per annum, with board, residence, and laundry. A fortnight's holiday will be allowed every six months, and the Locum will be paid by the Committee of the Hostel.

Applications, with three recent testimonials, should be addressed to the Secretary of the Hostel at 14, Fitzroy-square, London, W.1, and reach him before 3rd February. The successful applicant will be required to take up his duties on 10th February, 1940.

Royal National Orthopædic Hospital.

Applications are invited for the post of RESIDENT SURGEON and MEDICAL SUPERINTENDENT at the Royal National Orthopædic Hospital, Brockley Hill, Stanmore, Middlesex. Applicants must be Fellows of the Royal College of Surgeons of England.

In addition to the surgical work at the hospital the duties include attendance at various public health orthopædic clinics.

In normal times the salary is at the rate of £1250 a year and this rate obtains to the post. A house is also provided.

The hospital is at present a first base receiving hospital under the Ministry of Health Emergency Medical Service, and confirmation of the selection will be necessary by the Ministry before final appointment is made.

Applications should be received by the Secretary, Royal National Orthopædic Hospital, 234, Great Portland Street, London, W.1, from whom further particulars can be obtained, not later than Feb. 12.

British Postgraduate Medical School.

DEPARTMENT OF SURGERY.

There is a vacancy for a temporary FIRST ASSISTANT in the Surgical Unit of the British Postgraduate Medical School.

Candidates must be Fellows of the Royal College of Surgeons and have had some teaching experience. The duties include charge of beds and teaching of postgraduate students. Applicants should state whether they are prepared to undertake whole-time or part-time duties.

Further particulars may be obtained on application to the Dean.

Applications should be submitted to the DEAN, British Postgraduate Medical School, Ducane-road, W.12, not later than Tuesday, 30th January, 1940.

Royal Free Hospital,

Gray's Inn-road, London, W.C.1.

Applications are invited for the post of HONORARY ASSISTANT SURGEON to the ORTHOPÆDIC DEPARTMENT. Candidates must be Fellows of the Royal College of Surgeons of England.

Applications, accompanied by copies of three recent testimonials, should be sent to the undersigned on or before the 7th February, 1940.

RICHARD T. BARTLEY, Secretary.

Royal Free Hospital,

Gray's Inn-road, London, W.C.1.

Applications are invited for the post of HONORARY ASSISTANT SURGEON to the OPHTHALMIC DEPARTMENT. Candidates must be Fellows of the Royal College of Surgeons of England.

Applications, accompanied by copies of three recent testimonials, should be sent to the undersigned on or before the 7th February, 1940.

RICHARD T. BARTLEY, Secretary.

Royal Free Hospital,

Gray's Inn-road, London, W.C.1.

Applications are invited for the whole-time post of ASSISTANT MEDICAL REGISTRAR. If the successful candidate is not remunerated by the Emergency Medical Service he or she will be paid by the Hospital at the rate of £200 per annum.

Intending candidates, who must be fully qualified and registered, should submit applications, stating age and accompanied by copies of three recent testimonials, to the undersigned (from whom all information may be obtained) on or before 10th February.

RICHARD T. BARTLEY, Secretary.

Royal Free Hospital,

Gray's Inn-road, London, W.C.1.

Applications are invited for the post of HONORARY ASSISTANT OBSTETRIC SURGEON. Candidates must be Fellows of the Royal College of Surgeons of England.

Applications, accompanied by copies of three recent testimonials, should be sent to the undersigned on or before the 7th February, 1940.

RICHARD T. BARTLEY, Secretary.

Royal Free Hospital,

Gray's Inn-road, London, W.C.1.

Applications are invited for the post of HONORARY OBSTETRIC SURGEON. Candidates must be Fellows of the Royal College of Surgeons of England.

Applications, accompanied by copies of three recent testimonials, should be sent to the undersigned on or before the 7th February, 1940.

RICHARD T. BARTLEY, Secretary.

Metropolitan Borough of Wandsworth.

APPOINTMENT OF TEMPORARY ASSISTANT MEDICAL OFFICER OF HEALTH AND ASSISTANT TUBERCULOSIS OFFICER.

Applications are invited for the appointment of TEMPORARY ASSISTANT MEDICAL OFFICER OF HEALTH and ASSISTANT TUBERCULOSIS OFFICER (Male) at a salary of £600 per annum, together with an allowance on a mileage basis for use of own car. Candidates must be registered Medical Practitioners, not less than twenty-five nor more than forty years of age, must have had not less than eighteen months' clinical experience of which not less than six months must have been spent in a hospital as resident officer in charge of beds occupied by general or surgical cases, and must have had special training for not less than six months in the diagnosis and treatment of tuberculosis. Practical experience in the work of a Tuberculosis Dispensary is essential, and practical experience in Bacteriology will be an advantage.

Forms of application, further particulars and conditions of the appointment may be obtained from me. Applications for the appointment must be received by me not later than 12th February, 1940. All communications must be addressed to "The Town Clerk, Municipal Buildings, Wandsworth, S.W.18," the envelope being marked "Assistant Medical Officer of Health."

By Order,
R. H. JERMAN, Town Clerk.

Municipal Buildings, Wandsworth, S.W.18,
15th January, 1940.

London County Council.

Applications invited from Medical Practitioners of at least one year's standing for undermentioned positions. Candidates must have held a resident appointment in a general hospital for at least six months for position (*a*) and same qualification desirable for position (*b*). Married quarters are not available.

HIGH WOOD HOSPITAL FOR CHILDREN, BRENTWOOD, ESSEX.

*(*a*) TEMPORARY ASSISTANT MEDICAL OFFICER (Class I).—Salary £350–£25–£425, with board, lodging, and washing. Surgical duties.

(*b*) TEMPORARY ASSISTANT MEDICAL OFFICER (Class II).—Salary £250 a year, together with board, lodging, and washing. Experience in children essential and in tuberculosis desirable.

* For duty at High Wood Hospital in the first instance.

Application forms obtainable (stamped addressed foolscap envelope necessary) from Medical Officer of Health, Staff Division, 2, County Hall, S.E.1, returnable by 5th February.

Canvassing disqualifies.

National Dental Hospital,

Great Portland-street, London, W.1.

Applications are invited for the post of HONORARY CLINICAL ASSISTANT in the X-RAY DEPARTMENT of the National Dental Hospital (Dental Department of University College Hospital) on Wednesday mornings.

Applications must reach the Secretary, University College Hospital, W.C.1, by NOON on February 1st.

County Borough of West Ham.

PLAISTOW FEVER HOSPITAL.
(210 Beds.)

Applications are invited for the post of JUNIOR ASSISTANT MEDICAL OFFICER (Male) at the Plaistow Hospital.

Salary £300 per annum, together with residence, board, and laundry. The appointment will be for a period of twelve months. Preference will be given to candidates who have held a resident appointment in a general hospital. Good facilities for post-graduate study are available.

Application forms can be obtained from the Medical Officer of Health, Municipal Health Offices, Romford-road, Stratford, E.15, and should be returned, together with copies of not more than three recent testimonials, to the Town Clerk, Town Hall, West Ham, E.15, not later than 30th January, 1940.

The Royal Hospital, Wolverhampton.

(Incorporated under Charter.)
(300 Beds.)

Applications are invited for the post of RESIDENT SURGICAL OFFICER. Salary £200 per annum. Experience of major surgery essential. The successful candidate must hold one of the higher qualifications in Surgery.

Applications, with copies of testimonials, to be forwarded to the undersigned forthwith.

W. H. HARPER House Governor.

Wolverhampton, 27th December, 1939.

The Royal Hospital, Wolverhampton.
(Incorporated under Charter.)

CASUALTY OFFICER required. Salary £100 per annum.
Applications are invited for the above resident post, duties to commence 1st February.
The Hospital contains 300 Beds, includes the usual special departments, and is recognised by the various Examining Bodies for a part of the requisite attendance on Medical and Surgical Practice.
Candidates must be registered under the Medical Acts and unmarried.
The appointment is for six months. Board, furnished room, and laundry provided.
Applications, with copies of testimonials, to be forwarded to the undersigned.

W. H. HARPER, House Governor.

Wolverhampton, 12th January, 1940.

Addenbrooke's Hospital, Cambridge.

Applications are invited for the post of RESIDENT ANÆSTHETIST AND EMERGENCY OFFICER (Male). The appointment will be for three months from March 1st, 1940. Salary at the rate of £130 per annum, with board, residence, and laundry.
Candidates, who must be unmarried and duly registered, are requested to forward their applications, stating age, qualifications, &c., together with copies of not more than four recent testimonials, to the undersigned on or before Wednesday, February 7th, 1940.

J. A. BEARDSALL, Secretary-Superintendent.

Addenbrooke's Hospital, Cambridge.

Applications are invited for the post of HOUSE SURGEON. The appointment will be for six months from March 1st, 1940, but is terminable at an earlier date by one month's written notice on either side. Salary will be at the rate of £130 per annum, with board, residence, and laundry.
Candidates (Male), who must be unmarried and duly registered, are requested to forward their applications, stating age, qualifications, &c., together with copies of not more than four testimonials, to the undersigned on or before Wednesday, February 7th, 1940.

J. A. BEARDSALL, Secretary-Superintendent.

Wolverhampton and Midland Counties
EYE INFIRMARY.

HOUSE SURGEON wanted. Ophthalmic experience preferred. Duties to commence towards the end of February, 1940. There are 70 beds for in-patients and large out-patient department. Salary £150 a year, with furnished apartments, board, and laundry.
Ladies and gentlemen applying should state age and experience, and send copies of three recent testimonials to reach the Secretary not later than first post 6th February.
The Eye Infirmary is recognised as a Hospital at which a full course of instruction for admission to the D.O.M.S. may be taken.

EUSTACE LEES, Secretary.

15th January, 1940.

Liverpool Heart Hospital,
34, Oxford-street, LIVERPOOL, 7.

HOUSE PHYSICIAN required (Male or Female) April 1st, for six months. Facilities for Research and for M.D. thesis. Salary at rate of £100 per annum, with board, residence, and laundry.
Applications to Secretary.

UNIVERSITY OF BRISTOL

The University invites applications for a full-time LECTURER (Grade II) IN DENTAL PROSTHESIS. Salary £500 to £600 per annum, according to qualifications and experience.

Full particulars may be obtained from the undersigned, with whom application should be lodged not later than February 10th, 1940.

WINIFRED SHAPLAND,
Secretary and Registrar.

Royal Alexandra Hospital for Sick
CHILDREN, BRIGHTON.
(100 Beds.)

HOUSE SURGEON (Male) required. Salary at the rate of £150 per annum, with board, lodging, and laundry. Good experience. No canvassing allowed. To take up duties at the beginning of March.
Applications in writing, accompanied by testimonials, should be sent to P. F. SPOONER, Secretary, at the Hospital, Dyke-road, Brighton.
13th January, 1940.

Richard Murray Hospital, Blackhill,
CO. DURHAM.

HOUSE SURGEON.
Applications are invited for the post of House Surgeon at the above Hospital, which has accommodation for sixteen surgical cases and sixteen maternity cases. The salary offered is £200 per annum, with board, apartments, and laundry in addition.
Applicants will require to have had previous experience as a House Surgeon in a General Hospital, and preference will be given to those with similar experience in a Maternity Hospital.
The appointment is for a period of one year only.
The Hospital is served by a Visiting and Consultant Surgeon and a Visiting and Consultant Obstetrician.
So far as the Maternity Unit is concerned, the person appointed will be subject to the administrative control of the County Medical Officer of Health.
The duties will include the medical supervision of an adjacent small Convalescent Home for mothers and young children.
Applications, stating age, qualifications, and experience, and accompanied by copies of not more than three recent testimonials, must be received by the undersigned not later than Saturday, 27th January, 1940.

T. W. ADDISON,
Secretary to the Richard Murray Hospital Joint Board.

Shire Hall, Durham, 5th January, 1940.

Wingfield-Morris Orthopædic
HOSPITAL, HEADINGTON, OXFORD.

THE LORD NUFFIELD SCHOLARSHIP IN ORTHOPÆDIC SURGERY.
Male. £200 per annum, with board and residence for two years followed by £100 for three months' travel. Orthopædic experience essential.
Further information may be obtained from Professor H. J. SEDDON, to whom applications should be sent before March 1st.

Bedford County Hospital.

Wanted at once, SECOND HOUSE SURGEON for a term of not less than six months. Must be Male, unmarried, and fully qualified. Salary £150 per annum, with board, lodging, and laundry.
Applications, stating age, nationality, and qualifications, together with three recent testimonials, to be sent to the Secretary, Hon. Medical Staff Committee.

Royal Victoria Hospital, Dover.
(80 Beds. Two Residents.)

Wanted, RESIDENT MEDICAL OFFICER (Male), duly qualified and registered, for 3rd February. Salary £140 per annum, with board, lodging, and laundry.
Applications, stating age, with particulars of experience, accompanied by copies of three recent testimonials, should be sent to the Secretary as soon as possible.

City of Manchester.

WOMAN MEDICAL OFFICER FOR MATERNITY AND CHILD WELFARE.
The Public Health Committee invite applications for the position of Woman Medical Officer from qualified Medical Practitioners who are experienced in midwifery and children's diseases.
The salary is £600 per annum, rising by annual increments of £25 to a maximum of £700.
Application forms, with full information, may be obtained on application to the Medical Officer of Health, Public Health Department, Town Hall, Manchester, 2, and must be returned to reach him not later than Monday, January 29th, 1940.

R. H. ADCOCK, Town Clerk.

Town Hall, Manchester, 2, January 2nd, 1940.

The Walker Dunbar Private Hospital,
FOR WOMEN AND CHILDREN,
Clifton Down-road, BRISTOL, 8.

Applications are invited from Medical Women for a VACANCY on the Medical Staff of the above Hospital.
Applications, with copies of three recent testimonials, should be sent to the Secretary not later than January 30th.

City of Coventry.

TEMPORARY ASSISTANT SCHOOL MEDICAL OFFICER AND ASSISTANT MEDICAL OFFICER OF HEALTH.
The Coventry City Council invite applications from registered Medical Practitioners (Male) for the temporary post (for the duration of the war) of Assistant School Medical Officer in connexion with the medical inspection, &c., of school-children. When not engaged in school work the officer will be required to assist in the general work of the Public Health Department.
The salary will be at the rate of £600 per annum, and the temporary appointment will be terminable by one month's notice on either side.
Applications, with copies of two recent testimonials, should be made on the prescribed form (which may be obtained from the undersigned) and must be delivered not later than 24th January, 1940.

FREDERICK SMITH, Town Clerk.

The Council House, Coventry, 9th January, 1940.

Bristol Royal Infirmary.

(Branch of the Bristol Royal Hospital.)

Applications are invited for the following resident medical appointments for the six months commencing March 1st, 1940.

Three HOUSE PHYSICIANS.
Four HOUSE SURGEONS and One ASSISTANT HOUSE SURGEON.
One HOUSE SURGEON to the CASUALTY DEPARTMENT.
One HOUSE SURGEON to the EAR, NOSE, AND THROAT DEPARTMENT.
Two HOUSE SURGEONS to the FRACTURE DEPARTMENT.
One GYNÆCOLOGICAL HOUSE SURGEON.

Salaries at the rate of £80 per annum, except in the case of the Casualty House Surgeon who will receive a salary at the rate of £150 per annum.

Candidates, who must be duly qualified, to send in their applications on forms to be obtained from the undersigned which must be returned on or before February 3rd, 1940, together with copies of not more than three testimonials. The elected candidates must become members of the Medical Defence Union before taking up their appointments.

ELLIS C. SMITH, F.C.I.S.,
Secretary and House Governor, Bristol Royal Infirmary.

Bristol General Hospital.

(Branch of the Bristol Royal Hospital.)

The Committee invites applications for the following appointments which become vacant on March 1st, 1940

Two HOUSE PHYSICIANS, Three HOUSE SURGEONS, a HOUSE SURGEON to the GYNÆCOLOGICAL DEPARTMENT, a HOUSE SURGEON to the SPECIAL DEPARTMENTS and a CASUALTY HOUSE SURGEON.

The appointments will be made for six months with salaries at the rate of £80 per annum, and at the rate of £100 per annum for the Casualty House Surgeon, and in the event of a second appointment being held, at the rate of £100 per annum in each case with board, residence, &c., provided in the Hospital.

Candidates must be registered under the Medical Acts and produce testimonials of good personal character and ability, and must have recent experience of administration of anæsthetics.

Forms of application, &c., to be obtained from the Secretary, must be completed and returned with copies of testimonials, addressed to the undersigned on or before Saturday, February 3rd, 1940, from whom further particulars may be obtained.

THOMAS W. GREGG, F.C.C.S., Secretary.

Bristol General Hospital.

(Branch of the Bristol Royal Hospital.)

TEMPORARY RESIDENT SURGICAL OFFICER AND REGISTRAR (MALE).

The Committee invites applications for the appointment. Salary at the rate of £200 per annum (plus estimated emoluments of £200 per annum), with board, residence, &c., provided in the Hospital. Candidates must be registered under the Medical Acts and produce testimonials of good personal character and ability. The duties attaching to the post are chiefly surgical, but being also in part administrative, experience in this direction is therefore essential.

Applications, accompanied by copies of testimonials, to be forwarded to the undersigned on or before Saturday, February 10th, from whom forms of application and copies of the duties may be obtained.

The Hospital contains 277 Beds, and is a School of Medicine attached to the University of Bristol.

THOMAS W. GREGG, F.C.C.S., Secretary.

City of Birmingham Education COMMITTEE.

APPOINTMENT OF TWO ASSISTANT SCHOOL MEDICAL OFFICERS (Men or Women).

Two Assistant School Medical Officers (Men or Women) are required to begin duty as early as possible. Candidates must have had at least three years' experience in the practice of their profession subsequent to obtaining a registrable qualification. Salary according to "Askwith" Scale (£500 to £700 by annual increments of £25). In fixing commencing salary previous service in Class II of "Askwith" Scale may be taken into account. £10 per annum travelling expenses allowed.

Forms of application (to be returned not later than first post on Wednesday, 31st January, 1940), together with further information, obtainable from the undersigned on receipt of stamped, addressed foolscap envelope. Communications should be endorsed "Assistant School Medical Officer." Canvassing will disqualify. P. D. INNES, Chief Education Officer.

Education Office, Margaret-street, Birmingham, 3,
12th January, 1940.

AMENDED ADVERTISEMENT.

Borough of Barking.

DEPUTY MEDICAL OFFICER OF HEALTH.

Applications are invited before the 29th January, 1940, from qualified Medical Practitioners for the designated appointment of Deputy Medical Officer of Health and Deputy School Medical Officer.

Candidates must have had experience in public health work and must hold a registrable qualification in public health.

Salary scale: £725–£25–£800.

Particulars of duties and application form may be obtained from the undersigned.

S. A. JEWERS, Town Clerk.

Town Hall, Barking, Essex.

Surrey County Council.

ASSISTANT MEDICAL OFFICERS.

Applications are invited for the appointment of two Assistant Medical Officers (Male). Applicants must possess a qualification in Public Health. The main duties will be in connection with the School Medical and Maternity and Child Welfare Services, but the officers appointed will be required to undertake such other Public Health duties as may be allocated to them. They will be on the staff of the County Medical Officer of Health, must reside in the County of Surrey, and devote their whole time to the work.

Salary £600 per annum, rising by annual increments of £25 to £700 per annum. Travelling expenses in accordance with the Council's scale will be allowed.

The appointments will be subject to the approval of the Ministry of Health and the Board of Education, to the successful candidates passing a medical examination, to the provisions of the Local Government Superannuation Act, 1937, and to the Staffing Regulations of the Council, which provide, inter alia, that appointment may be determined at any time by three months' notice.

Applications, stating age, qualifications, and experience, together with copies of three recent testimonials, should be made on the prescribed form and sent to the County Medical Officer of Health, Technical College, Stoke Park, Guildford, from whom copies of the application form may be obtained, and to whom any inquiries relating to the appointments should be addressed.

Last day for receipt of applications, Saturday, 27th January, 1940.

Canvassing, directly or indirectly, will disqualify.

DUDLEY AUKLAND, Clerk of the County Council.

Technical College, Stoke Park, Guildford, 9th January, 1940.

National Sanatorium, Benenden, Kent.

The Council of the National Sanatorium, Benenden, Kent, invites applications for the post of HOUSE PHYSICIAN.

The appointment is for six months commencing 1st March, 1940. Salary at the rate of £150 per annum, with board, residence, and laundry.

Applicants should be fully qualified and previous experience in the treatment of pulmonary tuberculosis is desirable. Applications, stating age, qualifications, experience, and nationality together with copies of three recent testimonials, should be sent to the undersigned not later than 26th January.

C. C. LAWRENCE, Hon. Secretary.

Envelopes to be marked "Personal."

Borough of Barry.

ACCIDENT AND SURGICAL HOSPITAL.

Applications are invited for the post of RESIDENT SURGICAL OFFICER during the period of the existing National Emergency. Salary at the rate of £350 per annum, rising by two increments of £50 per annum to £450, together with board and lodging.

Candidates must be capable of performing major surgical operations and preference will be given to applicants holding higher surgical qualifications and able to assist in carrying out the X-ray work of the Hospital. The successful candidate will act under the direction of the Medical Superintendent and the Surgeon, and will be required to pass a medical examination.

Applications, stating age, qualifications, and full particulars with regard to experience, with copies of three recent testimonials, to be sent to Dr. E. I. Davies, Medical Officer of Health, Public Health Offices, Barry, Glam., not later than Wednesday, the 24th January, 1940.

T. D. HOWELLS, Town Clerk.

Council Offices, Barry, 6th January, 1940.

The Prince of Wales's Hospital,

Greenbank-road, PLYMOUTH.
(Formerly the South Devon and East Cornwall Hospital.)
(264 Beds.)

Applications are invited for the post of HOUSE SURGEON. Salary £120 per annum, with board, residence, and laundry.

Appointment is tenable for six months and is subject to renewal. Duties to commence 3rd February.

The Hospital is officially recognised for the surgical practice required before admission to the Final Fellowship Examination of the Royal College of Surgeons of England.

Applicants must be registered under the Medical Acts and be members of either the Medical Defence Union or the London Counties Medical Protection Society.

Applications, stating age and qualification, with copies of three recent testimonials, to reach the undersigned by 24th January, 1940.

ARTHUR R. CASH, General Superintendent.

The Chester Royal Infirmary.

(Normal capacity 225 beds.)

Applications are invited for the post of HOUSE SURGEON (Male) to the ORTHOPÆDIC DEPARTMENT, to take up duty on the 1st February, 1940. Salary £150 per annum, with board, lodging, and laundry.

Application list closes 25th January, 1940.

Application forms may be obtained from—

W. H. GRACE, M.D., F.R.C.P.,
Hon. Secretary, Medical Committee.

Grimsby and District Hospital.

(237 Beds.)

Applications are invited for the following posts:—
(a) RESIDENT CASUALTY OFFICER (Male).
(b) RESIDENT ANÆSTHETIST AND JUNIOR HOUSE OFFICER (Male).

Remuneration £175 per annum, with board-residence. Candidates must be fully qualified and registered, and while previous Hospital appointment experience is desirable, it is not essential. Appointment for six months, option of renewal. Duties to commence at once.

Applications, stating age, qualifications, experience, and when free to take up duties if selected, also not more than three testimonials, to be forwarded to the undersigned at once.

H. B. COATES, Secretary-Superintendent.

12th January, 1940.

Borough of Taunton.

TEMPORARY ASSISTANT SCHOOL MEDICAL OFFICER AND ASSISTANT MEDICAL OFFICER OF HEALTH.

Applications are invited from fully qualified Medical Practitioners (preferably holding a Diploma in Public Health) for the above position.

The salary will be at the rate of £500 per annum, rising by annual increments of £25 to a maximum of £700.

The duties will include the medical inspection and treatment of school-children, maternity and child welfare work, and other duties under the Public Health Acts, and previous experience in these is desirable.

The appointment will be subject to three calendar months' notice on either side, and the successful candidate will be required to undergo a medical examination, and to produce a birth certificate.

Forms of application may be obtained from the Medical Officer of Health, St. Paul's House, Taunton, to whom they should be returned not later than 27th January, 1940, together with copies of not more than three recent testimonials.

W. H. BAILEY, Town Clerk.

Municipal Buildings, Taunton, 19th January, 1940.

Birmingham United Hospital.

(The General Hospital, the Queen's Hospital, The Queen Elizabeth Hospital.)

Applications are invited for the post of REGISTRAR to the EAR, NOSE, AND THROAT DEPARTMENT (non-resident).

Candidates must be registered Medical Practitioners. Preference will be given to candidates who have held a resident appointment in a Teaching Hospital.

The appointment is an annual one, the holder being eligible for re-election.

Salary at the rate of £150 per annum.

Applications must be sent to the undersigned (from whom all further particulars can be obtained), stating age, experience, and qualifications, with copies of recent testimonials, not later than Friday, February 2nd.

G. HURFORD, Secretary, Birmingham United Hospital.

The Queen Elizabeth Hospital, Edgbaston, Birmingham, 15, January 15th, 1940.

City of Manchester.

CRUMPSALL HOSPITAL. (1400 Beds.)
(Recognised under the Regulations for the F.R.C.S.)

The Public Health Committee invites applications from registered Medical Practitioners for the post of RESIDENT ASSISTANT MEDICAL OFFICER at the above-named Hospital.

The salary for the appointment is £200 per annum, with board, residence, and laundry in addition, subject to the Manchester Corporation conditions of service.

The appointment will be made in the first instance for a period of six months, renewable for a further six months, but not renewable thereafter.

Full information and forms of application may be obtained from the Medical Officer of Health, Hospitals Administration Section, Box 399, Town Hall, Manchester, 2, and applications for the post must be received by him not later than 31st January, 1940.

R. H. ADCOCK, Town Clerk.

Town Hall, Manchester, 2, 15th January, 1940.

County Borough of Swansea.

PUBLIC HEALTH DEPARTMENT.

HILL HOUSE ISOLATION HOSPITAL.

RESIDENT MEDICAL OFFICER (Male or Female).

Applications are invited from registered Medical Practitioners of either sex for the post of Resident Medical Officer. Previous experience not essential. The appointment is limited to one year, will not be renewable, and will be terminable at any time within the year by one month's notice on either side.

Salary £200 per annum, with board, residence, and laundry.

Applications, stating age and qualifications, with copies of not less than three recent testimonials, should be sent to the Medical Officer of Health, The Guildhall, Swansea, not later than January 31st, 1940.

Swansea General and Eye Hospital.

(336 Beds.)

Applications are invited for the post of RESIDENT ANÆSTHETIST (Male). Appointment for a period of six months (with board, residence, and laundry) at a salary of £150 per annum.

At the expiration of this period the position will be reconsidered with a view to engagement for a further period of six months at a salary of £200 per annum if national emergency conditions permit the adoption of such course at that time.

Applications, stating age, nationality, qualifications, and experience, to be forwarded to the undersigned.

O. C. HOWELLS, Secretary-Superintendent.

County Borough of Oldham.

PUBLIC HEALTH DEPARTMENT.

APPOINTMENT OF DEPUTY MEDICAL OFFICER OF HEALTH AND ASSISTANT TUBERCULOSIS OFFICER.

Applications are invited for the position of Deputy Medical Officer of Health and Assistant Tuberculosis Officer. Applicants must be registered Medical Practitioners and hold a Diploma in Public Health or similar qualification, and also have previous experience in General Medicine, Surgery, and Public Health work. Special experience in Tuberculosis is essential. The age-limit for new entrants to the Corporation service is forty-five.

The successful candidate will also be appointed to the Staff of the Education Committee as Deputy School Medical Officer of Health, and will undertake duties in the School Medical Department. He should also have experience of work under the Mental Deficiency Acts and in connexion with Air-raid Precautions Schemes.

The person appointed will be required to reside in the Borough and to devote the whole of his time to the duties of the office and to perform such duties in connexion with the Public Health and Medical Services of the Council as shall from time to time be determined.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a satisfactory medical examination.

The salary will be an inclusive one and cover all duties, and will commence at £750 per annum and rise by annual increments of £25 to £850 per annum. The person appointed will be required to account for and hand over to the Council all fees and other payments received by him.

The appointment may be determined by three months' notice on either side.

Canvassing or submitting testimonials from members of the Council or of any committee appointed by the Council will be a disqualification.

Forms of application and conditions of appointment may be obtained from the Medical Officer of Health, Public Health Department, Town Hall, Oldham, and must be returned to him, accompanied by copies of three recent testimonials, on or before the 7th of February, 1940.

THOMAS ALKER, Town Clerk.

Town Hall, Oldham, 15th January, 1940.

Ancoats Hospital, Manchester, 4.

HOUSE SURGEONS (Two), Lady or Gentleman, required to commence duty on 1st March. One for ORTHOPÆDIC DEPARTMENT and one for EAR, NOSE, AND THROAT DEPARTMENT and to act as House Physician to one of the Honorary Physicians. Appointments for six months. Salary £100 per annum, with board, residence, laundry, &c.

Applications, stating age, experience (if any), and qualifications, to be forwarded to the undersigned, together with copies of three recent testimonials, on or before 31st January.

By Order of the Board.

HERBERT J. DAFFORNE,
General Superintendent and Secretary.

The Royal Infirmary, Bradford.

RESIDENT SURGICAL OFFICER (Male) required to supervise the work of five House Surgeons, and be generally responsible for the surgical work of the Hospital.

Candidates must be single, have had previous hospital experience, and a special surgical qualification. Salary £250 per annum, with board, residence, and washing.

There are 345 Beds and ten resident officers.

Applications, stating age, qualifications, and previous experience, with copies of not more than three recent testimonials, to be received by the undersigned not later than 9th February.

H. TRUSSON, House Governor and Secretary.

Dated 15th January, 1940.

Royal Victoria Infirmary, Newcastle

UPON TYNE.
(835 Beds.)

Applications are invited, as soon as possible, for the post of temporary whole-time MEDICAL REGISTRAR.

Candidates must be registered in Medicine and in Surgery.

The rate of remuneration is £250 per annum.

Applications, with copies of not more than three testimonials, should be sent, as soon as possible, to the undersigned, from whom any further particulars may be obtained.

S. DUNSTAN, House Governor and Secretary.

12th January, 1940.

Dorset County Hospital, Dorchester.

APPOINTMENT OF HOUSE SURGEON.

The Committee of Management are open to receive applications for the position of House Surgeon (Male only) to take up his duties about the middle of March, 1940.

Every candidate must be unmarried and possess a registered qualification to practise medicine and surgery from some recognised body in Great Britain or Ireland. Salary £150 per annum, with board and lodging. The appointment is for a period of six months.

All applications, accompanied by copies of three recent testimonials, should be sent to the Secretary, Dorset County Hospital, by 7th February, 1940.

Candidates must be of British birth and nationality.

Royal Infirmary, Bradford.

One or more HOUSE SURGEONS (Male) wanted immediately. Six months' appointment.

Candidates must be single and legally qualified. Salary £150 per annum, with board, residence, and washing.

There are 345 Beds and 10 resident officers.

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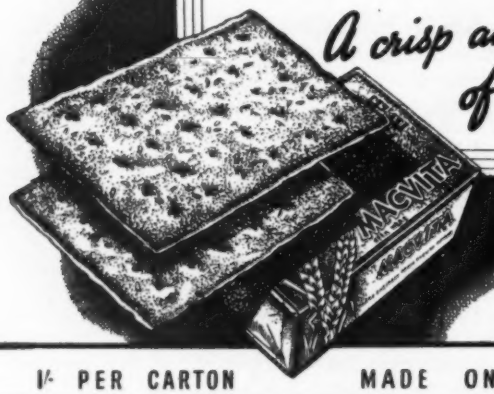

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NOW MANUFACTURED IN ENGLAND
under an Order in respect of the Trade Mark 'SPETON' granted by the Comptroller-general of Patents, Designs, and Trade Marks under the Patents, Designs, Copyright and Trade Marks (Emergency) Act, 1939.

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contains the antivirus of all the common strains of STAPHYLOCOCCI, STREPTOCOCCI, and B. PYOCYANEUS in a lanoline excipient base with ichthyol, zinc oxide, etc.

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contains, in addition, the autolysins of M. CATARRHALIS, PNEUMOCOCCI, B. PFEIFFER, B. INFLUENZÆ, and calmative and decongestive ingredients for all nasal affections.

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It has also been used with success by professional singers for irritation of the throat

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It is especially useful in the troublesome cough of

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A very soothing Linctus for irritating Night Coughs

One or two teaspoonfuls—undiluted—usually give instant relief

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NEW Volatile Vasoconstrictor

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Free Samples *for surgery use will gladly be sent on request to any member of the Medical Profession. Please address your request to*

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Marmite is rich in all the vitamins of the B group. It is particularly useful in the present emergency now that the food question is becoming difficult.

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There is a growing body of evidence of the value of Vitamin E in the prevention of pregnancy toxæmias, and it has been recommended that it should be administered as a routine throughout the period of gestation.

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Vitamin E is available for clinical use as Phytoferol Capsules (Vitamin E Capsules B.D.H.), each capsule containing the equivalent of 3 mg. of synthetic *dl*-α-tocopherol.

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Telephone: Clerkenwell 3000 Telegrams: Tetradome Telex London

Phy/E/403

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ELIMINATOR & SOLVENT OF URIC ACID

Gout

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Rheumatic diathesis

FORMULA

Thyminic Acid	0·10
Hexamethylenetetramine-Anhydromethylenecitrate	0·50
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DIRECTIONS

One teaspoonful to be taken morning and night in a tumblerful of water.

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TO COMBAT THE BLACK-OUT!

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VITAMINS "A" & "D" *CAPSULES*

Each Capsule contains 7000 I.U. of "A" and 900 I.U. of "D"

Price:
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FOR RAPID ADAPTATION OF VISION IN SEMI-DARKNESS

(*Lancet*, 1939-II-1355)

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Cohen, for instance, has reported noteworthy success in a series of patients suffering from atrophic arthritis whom he treated exclusively with 'Calsiod' Brand Tablets over an average period of *three months*.

(*Clin. Med. & Surg.*, 44 : 341, 1937.)

'Calsiod' Brand Tablets and the drug from which they are compressed (calcium ortho-iodoxybenzoate) are manufactured in London

Physicians are invited to write from their present address for professional samples

'CALSIOD'
BRAND
TABLETS

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GEDEON RICHTER GEDEON RICHTER GEDEON RICHTER

INFLUENZA AND ALLIED DISORDERS

EFFECTIVELY CHECKED IN THE PRELIMINARY STAGES BY THE **ANTIPYRETIC**

"KALMOPYRIN"

WATER-SOLUBLE CALCIUM ACETYLSALICYLATE

KALMOPYRIN presents a notable advance in the production of Antipyretics and is effective in most stubborn cases. Issued in tablets each gr. 8 (and in powder).

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Each teaspoonful of Calcydic Granules contains—
Dicalcium phosphate 7½ gr.
Vitamin D - 1,500 units
Glucose, Chocolate, and Cane Sugar

These granules may be given to children or adults, prophylactically or therapeutically, in rickets, pregnancy, lactation, osteomalacia, menorrhagia, convalescence, chilblains, and urticaria.

Calcydic Granules are pleasant to take

In tins of ½ lb. at 2/3, and 1 lb. at 4/-

Descriptive literature and clinical trial sample will be sent on request.

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Being chocolate flavoured, FERRODIC Iron Granules appeal strongly to children who will not take ordinary iron preparations, such as Chemical Food. The iron is present in the ferrous state, being preserved from oxidation by the presence of reducing sugar (glucose).

FERRODIC Iron Granules contain a large proportion of this sugar, which gives the preparation a special value in ketosis ('acidosis'), a condition found in debilitated children. Sprinkled on bread and butter, the granules provide a solution to the problem of feeding children who have no appetite.

In tins of ½ lb. at 2/3, and 1 lb. at 4/- each.

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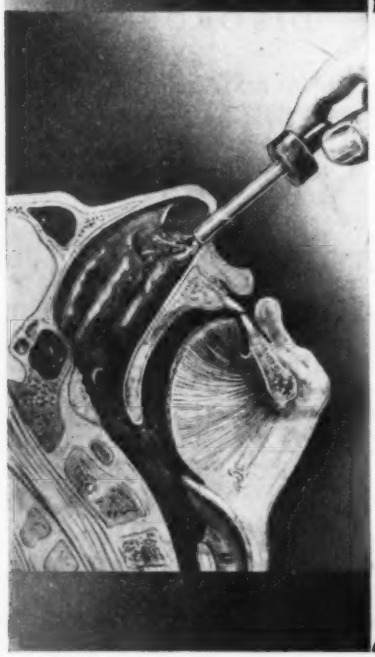
IN THE TREATMENT OF NASOPHARYNGEAL CONDITIONS



In inflammatory and infective conditions of the nasopharynx the decongestive and antiseptic properties of 'Endrine' have been proved over a period of years.

'Endrine' shrinks and soothes inflamed tissue, promotes sinus drainage, relieves congestion and improves breathing.

Boxes of four specimen bottles gladly sent on request to :—

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RADIO-MALT

(Vitamin Malt Food)

Under present conditions the dietary intake of Vitamins A B_1 and D, in particular, are decreased as a result of rationing of butter and bacon. It has been authoritatively stated that the deficiency of Vitamin A (and therefore of Vitamin D) must be made good from extra-dietary sources (*Lancet*, January 6th, 1940, p. 35).

Radio-Malt provides in an ideal form, particularly for children, Vitamins A and D, as well as B_1 B_2 and B_6. In addition to the provision of extra-dietary vitamins, Radio-Malt provides carbohydrate, thus supplementing the present limited supplies of sugar.

Sample on request

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Telephone: Clerkenwell 3000 Telegrams: Tetradome Telex London

RM/E/402

Prophylaxis among Influenza Contacts...

Specific prophylaxis against influenza not yet being available, one must adopt those methods which lend greatest support to the natural defences. One of the most effective of these is daily gargling and rinsing of the nostrils with T.C.P. In addition to its powerful bactericidal action, T.C.P. also possesses good penetrative power and materially assists phagocytosis.

Stimulating the natural defences, T.C.P. also enhances their action by destroying all invading organisms with which it comes in contact. The pronounced analgesic effect of T.C.P. soothes the inflamed mucous membranes of the nose and throat.

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A routine prophylactic measure of proved value

– daily use of T.C.P. REGD.

*D 15

Depend upon it . . . . .

Welfare and sick-room experience amply demonstrates the fundamental importance of regularity of bowel evacuation particularly for children during their growth and development. In this connection the choice of a laxative is obviously of first importance.

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'California Syrup of Figs' offers marked advantages over the harsher mineral and synthetic drugs. Skilfully prepared from selected figs and sennas, it effects thorough evacuation without griping or discomfort. Moreover it has no exhausting effect on the alimentary system and is completely safe and dependable in action.

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'California Syrup of Figs' may confidently be recommended as the routine laxative for children of all ages. Being pleasantly flavoured it is accepted readily by the most fastidious patient.

'California Syrup of Figs'

Samples will gladly be supplied on application to :—
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The
Pharmacological Chlorophyll Preparation

compounded according to the formula
and under the direction of

E. BUERGI, M.D.

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'PHYLLOSAN'

BRAND OF CHLOROPHYLL TABLETS

For the treatment of
Hardening Arteries, Abnormal Blood Pressure
Cardiac Weakness, Physical Decline
Debility, Neurasthenia, Anaemia

"'Phyllosan' has been before the profession now for fifteen years and has stood the test of time, and the developments indicated point to still greater usefulness for this product in the future."

Vide THE PRESCRIBER, Jan., 1938

A Pamphlet entitled
"Hyperpiesia, Metabolic Disorders, and the Anaemias"
giving laboratory and clinical reports supporting the new Therapy instituted by Professor Buergi will be sent to medical practitioners on request.

NATURAL CHEMICALS LTD., ST. HELENS, LANCASHIRE

★ PROSTATIC HYPERTROPHY

The treatment of this condition by the adequate administration of this Company's preparations of the prostate gland, either desiccated in capsules ("Opocaps") for oral administration, or in solution in ampoules ("Opojex") for hypodermic injection, has given excellent results in many cases.

Clinical Report :—

"I have had a marked success in a case of prostatic hypertrophy. The patient had suffered from this trouble for some time.

"There was an enormous soft enlargement of the prostate, and he had all the usual urinary discomforts—difficulty in starting, frequent desire for micturition, disturbed nights, etc.

"I put him under the conjoint treatment of 'Opojex' and 'Opocaps' Prostatic (B.O.C.), giving three injections weekly and three capsules daily for about three months.

"He began to show signs of improvement after about the first month's treatment, and at the end of the three months' course he had derived such marked benefit that all the symptoms had practically disappeared. As I then wished to have an expert's opinion on the condition of the patient's prostate, I sent him to a hospital for genito-urinary diseases, and the surgeon who made the examination reported that he could not understand why the patient had been sent to the hospital, as he could not find any enlargement of his prostate.

"This is, I consider, a remarkable result." M.B., B.Ch.

Report 5 years later :—

"This patient has had no relapse."—M.B., B.Ch.

℞ **"OPOCAPS" PROSTATIC (B.O.C.) gr. 3** (Oral)

Mitte - sig. 1 t.d.s., a.c. (Supplied in boxes of 50 or 100 capsules.)

℞ **"OPOJEX" PROSTATIC (B.O.C.)** (for injection)

Mitte - sig. 1 in die (or dieb. alt. when given concurrently with "Opocaps"). (Supplied in boxes of 6 or 12 ampoules 2 c.c.)

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CLINICAL RESEARCH HAS REVEALED THAT THE OUTSTANDING ACTION OF THIS FRACTION IS THAT OF CHECKING THE FUNCTIONAL UTERINE HÆMORRHAGE OF MENORRHAGIA AND METRORRHAGIA.

SUPPLIED IN BOTTLES OF 25, 50, & 100 "GLANULES"

'GLANOID' THYROID. WHEN PRESCRIBING THYROID SPECIFY THE 'GLANOID' BRAND TO ENSURE FULLY SATISFACTORY CLINICAL RESULTS.

'GLANOID' PITUITARY (POSTERIOR LOBE) EXTRACT. ½ AND 1 C.C. AMPOULES. STERILE, FREE FROM PRESERVATIVE, ISOTONIC, STANDARDISED PHYSIOLOGICALLY.

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Write for Literature concerning the various 'Glanoid' medicinal products of animal origin to :—

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OBITER DOCTA

INEBRIETY IN POLYNESIA.

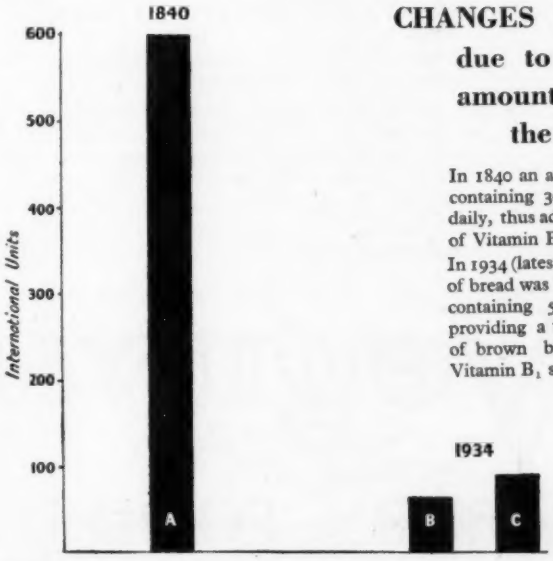
In a Pacific island, mandated to Australia, the aborigines used to brew a delicious alcoholic beverage made with yeast. It happened that those in authority disapproved of the natives' indulgence in this liquor and saw fit to introduce prohibitive legislation. Sobriety became the order of the day, and perforce of the night as well.

The result was quite unexpected. Opportunities for drunkenness, it is true, disappeared; but beri-beri in an acute fulminating form broke out among the breast-fed infants. It became clear that the main supply of Vitamin B_1 had been obtained from the toddy. When this was allowed once more the beri-beri ceased with dramatic suddenness, and the infant mortality fell from 50 to 7 per cent.

The moral of this is plain enough. A sudden change, however well intentioned, of ingrained dietary habits may produce the most calamitous results. A striking parallel exists in the rapid change from unmilled cereals to highly refined food which occurred in this country about the middle of the nineteenth century. This involved the removal of by far the most important source of the Vitamin B_1 as well as other valuable vitamins and mineral substances. The main supply of Vitamin B was cut off. Beri-beri, it is true, did not supervene because there was still just enough vitamin in the other foods consumed; but to-day it is recognised that the absence of beri-beri is no criterion of an adequate supply of the vitamin. Many conditions of sub-normal health—anorexia, faulty growth and chronic constipation, for example—are traceable to deficiency of the Vitamin B complex in the diet.

The difficulty of obtaining supplies of Vitamin B_1 in many modern diets has been emphasised by numerous accepted authorities on nutrition. The effects of the almost universal preference for white bread, however, can best be countered by supplementing the diet with a daily ration of Bemax, which is the natural wheat-germ in a palatable and stabilised form. Every day's output of Bemax is assayed for Vitamin B_1, under medical supervision, and so can be confidently relied upon to contain between 11-15 I.U. per gramme, approximately 400 Units per ounce.

Polynesian Natives. Chief and Woman, from engravings in a French account of Capt. Cook's Voyages, published in 1778.



CHANGES IN VITAMIN B1 INTAKE

due to the reduction in the amount of bread eaten during the last hundred years

In 1840 an average of 21.3 ozs. of wholemeal bread containing 30 units of Vitamin B_1 per oz. was eaten daily, thus adding to the diet approximately 600 I.U. of Vitamin B_1 (Col. A).

In 1934 (latest available figures) the daily consumption of bread was 11.6 ozs. Most people eat white bread containing 5 units of Vitamin B_1 per oz., thus providing a total of only 60 units (Col. B). If 10% of brown bread is eaten a day the amount of Vitamin B_1 supplied rises to 90 I.U. (Col. C).

Laboratory reports and clinical sample of Bemax sent to medical men on application to: **Vitamins, Limited (The Bemax Laboratories), (Dept. L.5), 23, Upper Mall, London, W.6.**

A Scientific Achievement in Infant Feeding

An entirely New System

THROUGHOUT the country, specialists in infant nutrition are keenly interested in the "Veguva" System of Infant Feeding. An examination immediately demonstrates its striking advantages over the usual methods of feeding with modified milk foods.

The "Veguva" System comprises two foods which, together, constitute a complete system of feeding from birth:—

"Veguva" No. 1.—Milk Food containing vegetable and fruit juices—for infants from birth.

"Veguva" No. 2.—Vegetable Adjuvant—for infants from four months.

Physiological tests show that "Veguva" Foods are rich in vitamins and important mineral salts which are essential to normal development and the prophylaxis of deficiency disorders.

"Veguva" is packed by methods which effectively conserve the product and prevent any deterioration.

A Booklet

explaining in detail the "Veguva" System of Infant Feeding, together with clinical trial samples of "Veguva" Foods, will be sent on request.

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Veguva BRAND

BABY FOODS

M206

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TRADE MARK BRAND

LIVER-STOMACH CONCENTRATE WITH IRON AND VITAMIN B COMPLEX

IN "SECONDARY" ANÆMIAS

● In anæmias of the microcytic type, the response to 'Lextron' brand liver-stomach concentrate with iron and Vitamin B complex is rapid. When he prescribes 'Lextron' the physician is assured that his patient will receive all the materials essential to blood regeneration in anæmias of this class.

'Lextron' brand liver-stomach concentrate with iron and Vitamin B complex is supplied in bottles of 42, 84, and 500 'Pulvules' brand filled capsules.

Prompt Attention Given to Professional Inquiries

ELI LILLY AND COMPANY LIMITED

BASINGSTOKE AND LONDON

S.U.P. 36

In Influenza

The employment of S.U.P. 36 for the treatment of influenza has been an established routine for more than a decade.

In many cases one intramuscular injection or, at the most, two injections (one on each of two successive days) of 1 c.c. of S.U.P. 36 will cause a rapid fall in temperature with a marked cessation of the characteristic symptoms followed by a shortened period of convalescence and an uninterrupted recovery.

Sample on request

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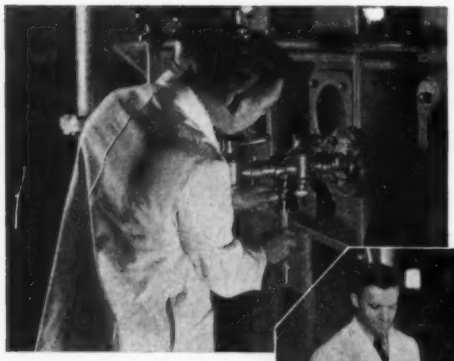
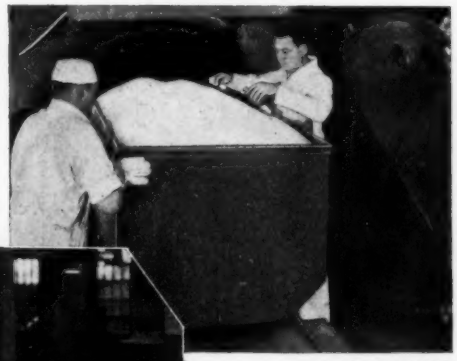
SUP 36/E/57

MEAD'S DEXTRI-MALTOSE

Is Tested Bacteriologically During Every Stage



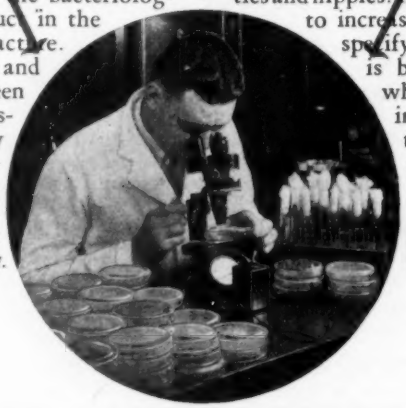
BEFORE DRYING



AFTER DRYING

WHEN PACKED

EVERY day that Dextri-Maltose is manufactured, control samples for bacteriological analyses are secured from certain points in the process which experience has shown give an accurate picture of the bacteriological condition of the product in the different steps of its manufacture. As a result of experiment and long experience, it has been demonstrated that by exercising certain strict sanitary control measures and precautions, the bacteria count can be reduced to the point where the finished product approaches practical sterility.



In infant feeding the physician protects the vitality and resistance of the organism in every way possible, by using pasteurized or boiled milk, boiled water, and sterilized bottles and nipples. He therefore naturally prefers to increase this margin of safety by specifying Dextri-Maltose which is bacteriologically safe. Here where the life and health of the infant and the reputation of the physician are in the balance — VALUE, NOT PRICE, IS THE TRUE MEASURE OF ECONOMY.

Mead Johnson & Company, Evansville, Indiana, U.S.A.

Please enclose professional card when requesting samples of Mead Johnson products to co-operate in preventing their reaching unauthorised persons

Brooks & Warburton, Ltd., 232-240 Vauxhall Bridge Road, London, S.W. 1

The Choice of an Antacid

THE serious disadvantages attending the administration of alkalis in the treatment of the dyspepsias are now well recognised. Recent reports, however, have again confirmed that the use of aluminium hydroxide gel obviates the secondary rise of acidity and the danger of "alkalosis" which are associated with alkali treatment.

"Alocol" (a specially prepared colloidal aluminium hydroxide) is rapidly replacing alkaline medicaments as a routine in the treatment of peptic ulcer and conditions associated with hyperchlorhydria.

"Alocol" forms with the gastric contents a colloidal jelly which has the power of adsorbing free hydrochloric acid, leaving intact the acid reaction of the stomach and thus not interfering with pepsin digestion and the antifermentative action of the gastric juice. "Alocol" is non-absorbable and completely free from any pleionectic tendency.

These considerable advantages of "Alocol" are combined with an effectiveness which makes the rapid cessation of subjective symptoms an almost invariable rule.

A clinical trial supply will be forwarded on request.
Issued in powder and tablet form.

"ALOCOL"

Colloidal Hydroxide of Aluminium

A. WANDER Ltd., 184, Queen's Gate, London, S.W.7

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Branches: CANADA: Peterborough, Ont. AUSTRALIA: 1, York Street North, Sydney. NEW ZEALAND: Maritime Buildings, Custom House Quay, Wellington. SOUTH AFRICA: P.O. Box 597, Cape Town. STRAITS SETTLEMENTS: P.O. Box 660, Singapore. HONG-KONG: 18, Pedder Street. Also at Berne, Paris, Chicago, Milan, Malta, Mauritius, Colombo, Cairo, etc.

Distributing Agents: INDIA: 85a, Ripon Street, Calcutta.

M.300

Against these seuerall humors ouerflowing,
As seuerall kinds of physicke may be good,
As diet, drinks, hot baths, whence sweat is growing,
With purging, vomiting and letting blood:
Which taken in due time, not ouerflowing,
Each malladies infection is withstood.

The prophylactic measures against the humours, vomiting and blood-letting, have lost their significance in medicine; but purging, in its milder form of laxation, is important as ever when constipation interferes with the normal functioning of the eliminatory tract.

To-day, Agarol brand Compound, the original mineral oil and agar-agar emulsion with phenolphthalein, tackles the problem of treating constipation on rational grounds. Agarol supplies unabsorbable moisture that softens the intestinal contents and makes their passage easy and painless. It lubricates the intestinal tract and gently stimulates the peristaltic function, thereby making evacuation certain and habit-formation possible.

WILLIAM R. WARNER & CO. LTD.
POWER ROAD, CHISWICK, LONDON, W.4

AGAROL for constipation

The intensified need for protection

VITAMINS A and D ROUTINE

This year the need to build up a strong vitamin barrier to infection is greater than usual. Adexolin Capsules present vitamins A and D as concentrates, free from bulky oil, and pleasant to the palate. The routine of one to two Adexolin Capsules a day is a sound prophylaxis against minor ills, and does much to help the practitioner by limiting the number of persons needing frequent medical attention. Each 3 m. capsule contains 600 i.u. of vitamin A, and 1,000 i.u. of vitamin D.

ADEXOLIN CAPSULES

in tins of 25, 100, 500 and 1000

For NIGHT BLINDNESS due to Vitamin A deficiency

PRODUCTS OF THE GLAXO LABORATORIES

This first symptom of vitamin A deficiency is particularly dangerous in present black-out conditions. Rapid vitamin A saturation can be secured with Prepalin, which presents the vitamin alone, highly concentrated and free from fishy oil. The liquid contains 72,000 *i.u.* per cc.; each 3 m. capsule contains 24,000 *i.u.*

Capsules in boxes of 25, 100, *and* 1,000. *Phials,* 8 cc.

PREPALIN

GLAXO LABORATORIES LTD., GREENFORD, MIDDLESEX · BYRon 3434

For the treatment of **SCHIZOPHRENIA**

"What is apparent, is that there was remission (complete, incomplete, or partial) in some 30·9 per cent. of treated cases who left hospital subsequent to their treatment, and amelioration in just over 19 per cent. of those who were treated but did not improve enough to leave hospital, and that until better methods are available, there is justification for continuing to use those which we have."

(*Extract from the Twenty-fifth Annual Report of the Board of Control for 1938; published by H.M. Stationery Office.*)

PHRENAZOL

Pentamethylenetetrazol

Phrenazol consists of a 10 per cent. solution of Pentamethylenetetrazol with 0·1 per cent. of Sodium Phosphate, for the shock (convulsive) treatment of Schizophrenia.

Supplied in 3 and 5 c.c. ampoules: boxes of 3 and 6 ampoules: 25 c.c. rubber-capped vials. Phrenazol powder, ¼ oz., 1 oz., 2 oz., 4 oz.

INSULIN–BOOTS

Insulin—Boots has been used extensively in the hypoglycaemic shock treatment of Schizophrenia, either alone or combined with Phrenazol.

Supplied in 5 c.c., 10 c.c., and 25 c.c. vials (20 units per c.c.), and in 5 c.c. and 10 c.c. vials (40 and 80 units per c.c.).

Literature sent upon request

BOOTS PURE DRUG CO. LTD NOTTINGHAM

SONERYL FOR NATURAL SOUND SLEEP

* **SONERYL** is one of the safest of the barbiturates. Its high safety factor and almost complete detoxication by the tissues within a few hours renders the dangers of overdosage or of cumulative effects almost negligible.

SONERYL acts rapidly, inducing, within half an hour of administration, from six to eight hours of restorative sleep, followed by refreshed awakening.

Remember—SONERYL FOR SLEEP

Supplied in containers of 25 tablets and boxes of suppositories.

* TRADE MARK

PHARMACEUTICAL SPECIALITIES (MAY & BAKER) LTD., DAGENHAM

HEAD COLDS . .

Protect yourself and those in your care

In wartime many things have to be brought under control apart from the actual enemy. Not the least important of these is the common cold.

The use of 'Benzedrine' Brand Inhaler in the early stages will often abort a cold entirely. Even in the acute stages marked symptomatic relief can be obtained and the onset of more serious complications, such as sinusitis, prevented.

Medical men responsible for the health of various communities must deplore the amount of time and efficiency that is lost owing to head colds and their sequelæ. We shall be glad to send samples of 'Benzedrine' Brand Inhaler to such physicians so that they may investigate the value of this volatile vaso-constrictor in decreasing wastage due to colds and other forms of nasal congestion.

For civilians and members of the fighting forces

For children and adults

Distributed by

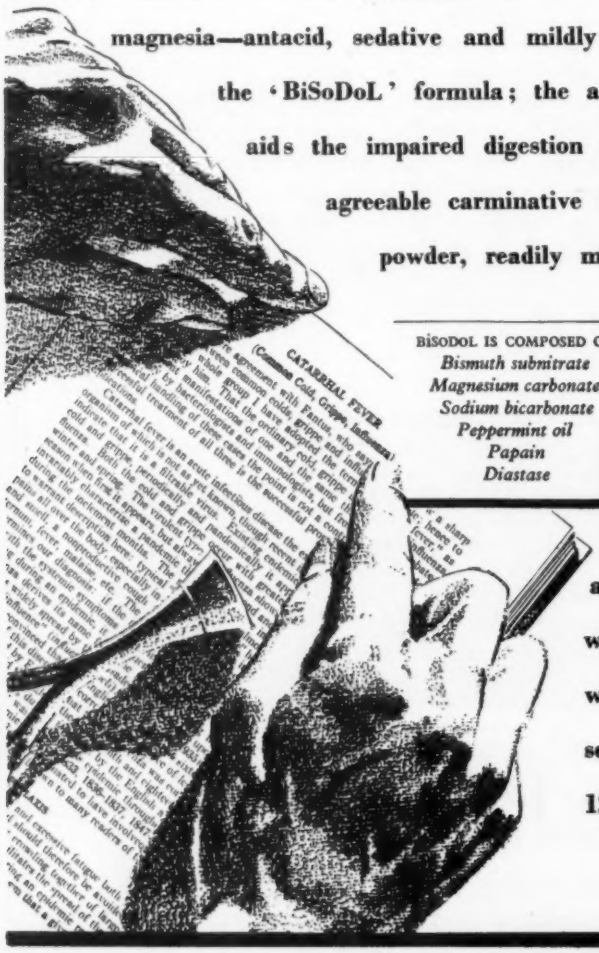
MENLEY & JAMES LIMITED

123, COLDHARBOUR LANE, LONDON, S.E.5

for Smith, Kline & French Laboratories, owners of the Registered Trade Mark, 'Benzedrine'

the Gastric syndrome in influenza....

Nausea, peptic dysfunction and anorexia complicate treatment and retard convalescence in many cases of Influenzal infection. An Antacid sedative, palatable and non-constipating, will relieve the distressing symptoms and increase tolerance of the prescribed diet. ● Bismuth, soda and magnesia—antacid, sedative and mildly aperient—form the base of the 'BiSoDoL' formula; the addition of papain and diastase aids the impaired digestion and ol. menth. pip. adds an agreeable carminative flavouring. The finely-divided powder, readily miscible with a small quantity of milk or water, ensures rapidity of action.



BISODOL IS COMPOSED OF
Bismuth subnitrate
Magnesium carbonate
Sodium bicarbonate
Peppermint oil
Papain
Diastase

Dosage: One teaspoonful, given three times daily before meals, represents an average dose. This may whenever necessary be increased with safety. Samples will be sent on request to Bisodol Ltd., 12 Chenies St., London, W.C.1.

In the treatment of pneumonia—

ANTIPNEUMOCOCCIC SERA (RABBIT)

(Refined and concentrated)

Lederle

SINCE ITS INTRODUCTION, type specific antipneumococcic serum for curative use has been produced by the immunisation of horses. The employment of rabbits for this purpose is of recent development.

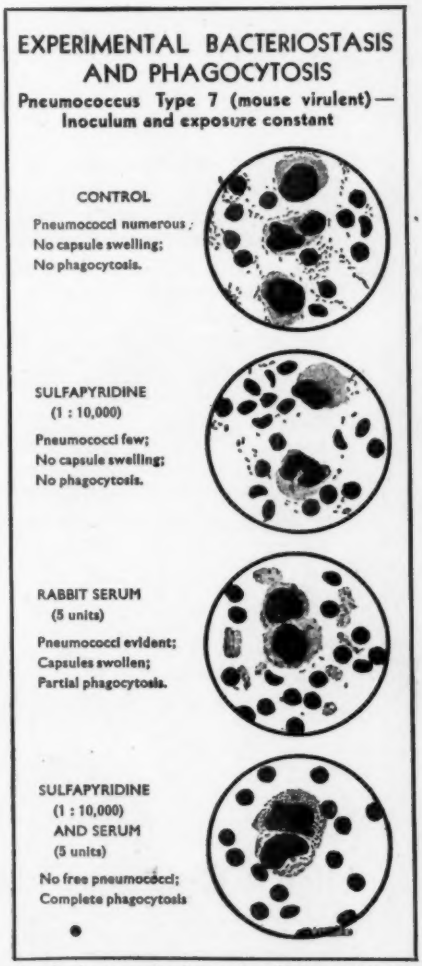
The rapidity with which rabbits may be immunised has made it practicable to produce antisera for the 'higher types' having a low incidence rate and in particular an antiserum for Type 3.

ANTIPNEUMOCOCCIC SERA (RABBIT) *Lederle* (refined and concentrated) are available in vials of 20,000 units for each of the following types.

Type 1	Type 11	Type 22
2	13	23
3	14	24
4	15	27
5	16	28
6	17	29
7	18	31
8	19	
9	20	

The dosage requirements for all types are based on the recommendations given for Antipneumococcic Serum (Horse).

The booklet "Antipneumococcic Sera (Rabbit) for the Treatment of 'Pneumococcus Pneumonias'" has recently been issued and will be sent on request.

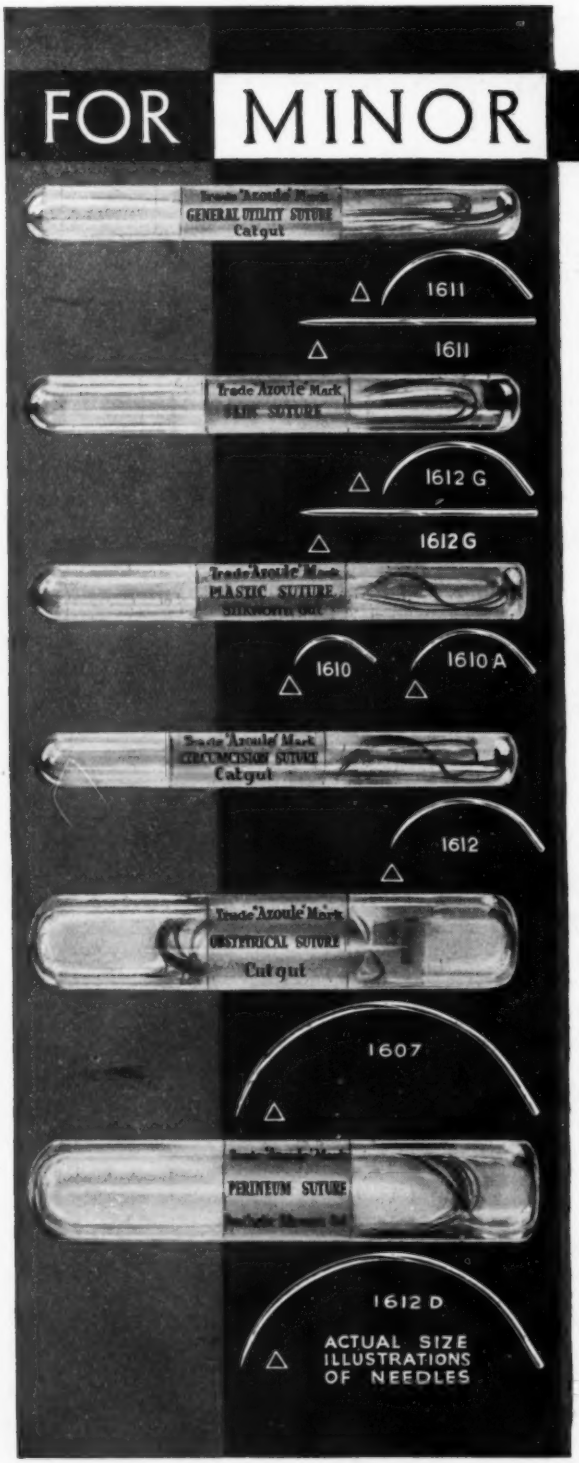


(Based on bone marrow culture studies of Bullowa and Osgood-Jour. Mich. State Med. Soc., July, 1939, Vol. 38, No. 7, p. 563)

Chas. F. Thackray LTD

A PRODUCT OF LEDERLE LABORATORIES Inc., New York, U.S.A., distributed in England by CHAS. F. THACKRAY LTD., The Old Medical School, LEEDS and 252 Regent Street, LONDON, W.1.

FOR MINOR SURGERY



AUTHENTICATED A&H EYELESS NEEDLES SUTURES

Ministry of Health Licence No. 6B

Each suture represents the consensus of professional opinion as to the type of needle and suture material most suitable.

All needles are made of stainless steel, and owing to an improved method of attachment, there is no mutilation at the point where the needle joins the suture material.

All A. & H. eyeless needles are slightly flattened at head so as to prevent rotation in needle holder.

Descriptive leaflets will be sent on application.

Allen & Hanburys Ltd.

Manufacturers of Surgical Instruments and Appliances, Hospital Furniture, Sterilized Surgical Sutures, and Electro-Medical Apparatus,

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LIXEN

safe, gentle, and palatable.

LIXEN is an extract of senna prepared by a special cold process to allay the griping action. The absence of an after-constipating effect gives it a special value in habitual constipation, and its gentle, though efficient, action, together with its pleasant flavour, makes it particularly acceptable to women, children, elderly and delicate persons, and convalescents, for whom the finding of a satisfactory aperient is often difficult.

LIXEN ELIXIR
In bottles of 2 oz. 1/2, 4 oz. 2/-, 8 oz. 3/6, 16 oz. 6/6,
In bottles of 40 and 80 oz. for dispensing.

LIXEN LAXATIVE LOZENGES
In tins of 12, 8½d., 24, 1/2 and bottles of 100, 4/-.
In bottles of 500 for dispensing.

Descriptive literature and clinical sample will be sent on request.

ALLEN and HANBURYS LTD
LONDON E 2

Telegrams: "Greenburys Beth London" Telephone: Bishopsgate (3201) 12 lines

BYNIN AMARA

In Convalescence from Influenza the characteristically profound lassitude and the low blood-pressure are likely to be accompanied by diminution of the capacity for digesting food and by slight anæmia.

For the speedily effective treatment of these disturbances BYNIN AMARA is most useful. It contains quinine phosphate, iron phosphate, and alkaloids of nux vomica, in Bynin Liquid Malt.

In bottles at 2/-, 3/6, 6/6, and 12/-

ALLEN and HANBURYS LTD
LONDON E 2

Telephone: Bishopsgate 3201 (12 lines) Telegrams: "Greenburys Beth London"

TAKAZYMA

an antacid and digestive powder

TAKAZYMA is a pleasantly flavoured combination of insoluble alkaline carbonates with Taka-diastase and aromatics. It is unique in that it is the only antacid powder containing the potent starch-digesting enzyme, Taka-diastase, one part of which will liquefy three hundred parts of starch in ten minutes.

TAKAZYMA alleviates gastric irritation, neutralizes acidity, and assists starch digestion. It is ideal for the treatment of hyperacidity as it neutralizes excess of acid without the risk of producing alkalosis or stimulating late secretion of acid.

TAKAZYMA is especially beneficial in the management of peptic ulcer. In addition to its antacid action and soothing effect upon the gastric mucosa, it converts starch into soluble dextrose and ultimately into maltose, thus assisting in preventing flatulence and distension.

DOSE: One heaped teaspoonful of Takazyma in half a tumblerful of water may be given as needed for the relief of hyperacidity or the distress caused by other gastro-intestinal conditions.

● *Issued in glass jars containing approximately 2 oz. and 2 lb.*

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Laboratories: Hounslow, Middlesex. *Inc. U.S.A., Liability Ltd.*

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NEOARSPHENAMINE

For Intravenous Injection

Conforms to rigid standards of purity and activity.

Hermetically-sealed phials — *0·15 gramme, 0·3 gramme, 0·45 gramme, 0·6 gramme, 0·75 gramme and 0·9 gramme.*

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For Subcutaneous or Intramuscular Injection

Preferred for children and in special circumstances.

Hermetically-sealed phials — *0·15 gramme, 0·45 gramme, 0·3 gramme and 0·6 gramme.*

Following the outbreak of the war of 1914–18 Burroughs Wellcome & Co. were the first to produce British organic arsenical products to replace those of enemy origin.

They have since maintained pre-eminence in this field.

Literature to Medical Men on request

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A valuable food supplement to Rationed Diet

TRADE **'KEPLER'** MARK

COD Liver Oil with **MALT** Extract

The Natural Vitamin Food for Infants, Children and Adults

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Owing to its vitamin content and food value it fortifies the system against colds and other infections.

Builds strong bones and sound teeth.

Bottles of two sizes

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IMPORTANT

We have pleasure in informing you that on and after the 29th January, 1940, we shall again be conducting all our business from our London Headquarters at the above address to which all orders and communications should be sent.

ORGANON LABORATORIES LTD.

January, 1940.

May be specified on N.H.I. Prescriptions

'Elastoplast' occlusive wound dressings will simplify considerably your casualty work in panel practice.

They are occlusive, *elastic and adhesive*, and, medicated with boric acid, conform to the requirements of the Drug Tariff. You will value the simplicity of 'Elastoplast' Wound Dressings as they can be used for all minor skin injuries with a great saving of your time. Supplied in sizes 1½″×2″, 2″×3″, 2½″×3½″, and 3½″×4½″. In cartons of three dressings.

Made in England by T. J. Smith & Nephew Ltd., London, Hull, Manchester, Glasgow.

Elastoplast Wound Dressings

TRADE MARK BRAND

elastic — adhesive — antiseptic

PNEUMONIA

As a supporting measure in all cases of pneumonia, Antiphlogistine Brand Dressing is a great help, no matter what other means of therapy is employed.

Antiphlogistine
BRAND TRADE MARK DRESSING

MADE IN ENGLAND

Sample on request

THE DENVER CHEMICAL MANUFACTURING COMPANY

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Whooping Cough

An infectious disease eminently suited to vaccine therapy, both for prophylaxis and treatment
(*vide* B.M.J., July 8th, 1939, p. 71)

WHOOPING COUGH VACCINE FORT
(EVANS)

Prepared from freshly isolated strains of H. pertussis, fulfils the requirements of modern conceptions of vaccine therapy in the prevention of whooping cough. This and all other **Whooping Cough Vaccines (Evans)** are prepared in accordance with established principles of vaccine therapy and may be relied upon to provide optimum clinical effect.

Whooping Cough Vaccine Fort (Evans)
(For Prophylaxis)
20,000 million Bordet's Bacillus per cc.

Whooping Cough Vaccine (Evans)
(For Prophylaxis)
4000 million Bordet's Bacillus per cc.

Mixed Whooping Cough Vaccine (Evans)
(For Prophylaxis)

Bordet's Bacillus	4000 million	5000 million per cc.
Pneumococci	500 ,,	
Streptococci	500 ,,	

Whooping Cough Vaccine Mixed (Evans)
(Curative)

Bordet's Bacillus	2000 million	2400 million per cc.
Pneumococci	200 ,,	
Streptococci	200 ,,	

The above vaccines are issued in

Ampoules of 1 cc.	2/6 each
Rubber capped bottles of 5 cc.	8/6 ,,
,, ,, ,, ,, 10 cc.	15/- ,,
,, ,, ,, ,, 25 cc.	25/- ,,

Made at The Evans Biological Institute by

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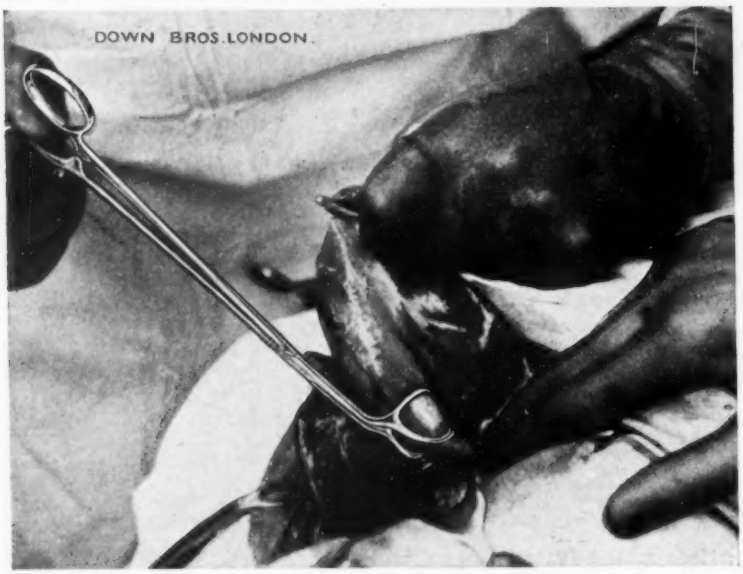
STATEMENT OF ACCOUNTS. 31*st December*, 1939

	£	£
LIABILITIES		
Current, Deposit and other Accounts, including Reserve for Taxation and Contingencies and Balance of Profit and Loss	444,446,530	
Balances in account with Subsidiary Banks	16,929,918	
		461,376,448
Acceptances and Endorsements, &c., for account of Customers		15,594,145
Paid-up Capital		15,858,217
Reserve Fund		10,750,000
ASSETS		
Cash in hand and with the Bank of England		53,177,086
Balances with other British Banks and Cheques in course of collection		19,161,492
Money at Call and Short Notice		28,713,245
Bills Discounted		67,585,175
Investments		98,840,829
Investments in Subsidiary Banks (at cost, *less* amounts written off):—		
The British Linen Bank—**£1,241,044 12s. 6d.** Stock		3,723,134
The Union Bank of Manchester Limited—**300,000** Shares of **£5** each, **£2 10s.** paid		750,000
Other Banks—(including fully paid Shares and **500,000** "B" Shares of **£5** each, **£1** per Share paid up, in Barclays Bank (Dominion, Colonial and Overseas) and **1,000,000** Shares of **£1** each, **5s.** per Share paid up, in Barclays Bank (France) Limited)		2,546,799
Advances:—Customers and other Accounts	199,742,690	
Balances in account with Subsidiary Banks	1,104,418	
		200,847,108
Liability of Customers for Acceptances and Endorsements, &c.		15,594,145
Bank Premises and Adjoining Properties (at cost, *less* amounts written off)		7,639,797

Head Office - - - 54, LOMBARD STREET, LONDON, E.C.3



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BY

T. B. MOUAT
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Vide THE LANCET, *Nov. 12, 1938*

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For Entertaining - or any Emergency

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ESTABLISHED 1795

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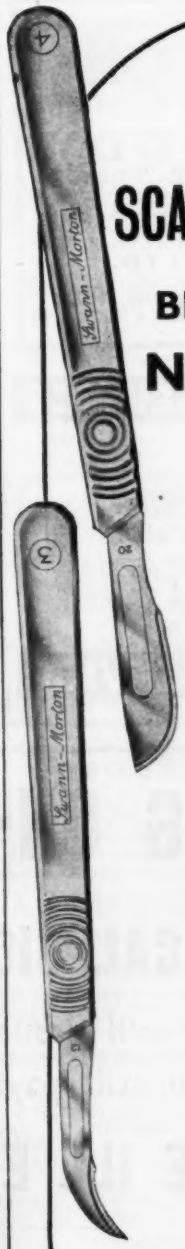
The Original and only genuine Chlorodyne

used with unvarying success by the Medical Profession in all parts of the world for over 90 years.

Always insist on "Dr. Collis Browne's."

THERE IS NO SUBSTITUTE



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BRITISH MADE

No increase in price!

★EDGE

Leading Hospitals throughout the country now specify Swann-Morton exclusively and more and more surgeons are finding that they can always rely on the perfect cutting edge and absolutely uniform fitment of these All-British Scalpel Blades.

★PRICE

Ever-increasing output backed by technical efficiency and knowledge has lowered production costs—we pass that on to you in the form of a worth while price reduction with the assurance that the same high quality will be maintained!

3/- per doz.

1 gross lots	33/- per gross
5 gross lots	31/6 per gross
10 gross lots and over	30/- per gross
Handles	5/- each (Nos. 3 & 4)

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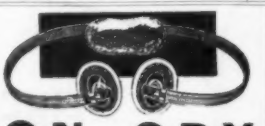

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Climate healthy and bracing.
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(UNIVERSITY OF LONDON.)

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A Course in Advanced Surgery and Operative Surgery for the FINAL EXAMINATION for the F.R.C.S. in MAY, 1940, is being organised at the London Hospital. The course, which will last eleven weeks, with a short interlude at Easter, will begin on Monday, February 19th, and terminate on May 4th. The classes in Operative Surgery will be held between April 1st and April 13th.

Special classes will be held on three days a week—Mondays, Wednesdays and Fridays—but on other days members of the Course may attend teaching in the Out-patient Department in the mornings and demonstrations in the Clinical Theatre in the afternoons and all undergraduate lectures. Arrangements will be made for members of the Course to attend other hospitals in the neighbourhood with which the London Hospital is now associated. The Course will be strictly limited to 24 students, and applications should be made as soon as possible to the Dean, from whom further particulars may be obtained. The fee for the whole Course will be £21, for the Course without Operative Surgery £15 15s. and for Operative Surgery alone £7 7s. In the event of the Course being discontinued on account of the war, fees which must be paid in advance will be returned in proportion to the period of the course which is abandoned.

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FOR THE UPPER AND MIDDLE CLASSES ONLY.

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Two miles from the Main Hospital there are several branch establishments and villas situated in a park and farm of 650 acres Milk, meat, fruit, and vegetables are supplied to the Hospital from the farm, gardens, and orchards of Moulton Park. Occupational therapy is a feature of this branch, and patients are given every facility for occupying themselves in farming, gardening, and fruit growing.

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The seaside house of St. Andrew's Hospital is beautifully situated in a Park of 330 acres, at Llanfairfechan, amidst the finest scenery in North Wales. On the North-West side of the Estate a mile of sea coast forms the boundary. Patients may visit this branch for a short seaside change or for longer periods. The Hospital has its own private bathing house on the seashore. There is trout-fishing in the park.

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For terms and further particulars apply to the Medical Superintendent (TELEPHONE: No. 2356 and 2357 Northampton), who can be seen in London by appointment.

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The above House is for the care and treatment of persons suffering from mental diseases and nervous disorders. Certified voluntary and temporary patients are received. Separate houses for treatment and accommodation of special cases adjoin the Institution. Occupational therapy, physical drill, and other forms of modern treatment. There is a seaside branch, Kearsney Court, near Dover, to which patients may be sent for treatment or on holiday. Motor drives are arranged when required. Tennis courts. Entertainments, dances, and indoor amusements held throughout the year. Terms from £3 3s. per week. Illustrated prospectus and further particulars can be obtained from the MEDICAL SUPERINTENDENT.

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FEES : 1st Class (men only) from £5 5s. per week upwards.
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Phone 2172
(Formerly General Manager, The Brine Baths, Droitwich Spa)

Metropolitan Borough of Wandsworth.

APPOINTMENT OF TEMPORARY ASSISTANT MEDICAL OFFICER OF HEALTH AND ASSISTANT TUBERCULOSIS OFFICER.

Applications are invited for the appointment of TEMPORARY ASSISTANT MEDICAL OFFICER OF HEALTH and ASSISTANT TUBERCULOSIS OFFICER (Male) at a salary of £600 per annum, together with an allowance on a mileage basis for use of own car. Candidates must be registered Medical Practitioners, not less than twenty-five nor more than forty years of age, must have had not less than eighteen months' clinical experience of which not less than six months must have been spent in a hospital as resident officer in charge of beds occupied by general or surgical cases, and must have had special training for not less than six months in the diagnosis and treatment of tuberculosis. Practical experience in the work of a Tuberculosis Dispensary is essential, and practical experience in Bacteriology will be an advantage.

Forms of application, further particulars and conditions of the appointment may be obtained from me. Applications for the appointment must be received by me not later than 12th February, 1940. All communications must be addressed to "The Town Clerk, Municipal Buildings, Wandsworth, S.W.18," the envelope being marked "Assistant Medical Officer of Health."

By Order,
R. H. JERMAN, Town Clerk.

Municipal Buildings, Wandsworth, S.W.18,
15th January, 1940.

London County Council.

Applications invited from Medical Practitioners of at least one year's standing for undermentioned positions. Candidates must have held a resident appointment in a general hospital for at least six months for position (*a*) and same qualification desirable for position (*b*). Married quarters are not available.

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*(*a*) TEMPORARY ASSISTANT MEDICAL OFFICER (Class I).—Salary £350–£25–£425, with board, lodging, and washing. Surgical duties.

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* For duty at High Wood Hospital in the first instance.

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EXPERT PREPARATION FOR ALL MEDICAL EXAMINATIONS

POSTAL COURSES : PRIVATE TUITION
THESIS GUIDANCE

MEDICAL PROSPECTUS (47 pp.)

CONTENTS: The method and the cost of entering the Medical Profession. *Particulars of all Medical Examinations,* Postal Courses, and Oral Classes. Suggestions for the Higher Medical and Surgical Examinations. Suggestions for the Special Diploma Examinations. Refresher Courses. Openings for Women. Hints for writing theses.

Medical Prospectus gratis along with list of Tutors, &c., on application to the Principal, 17, Red Lion-square, London, W.C.1. (Telephone: HOLborn 6313.)

St. Mary's Hospital Medical School, W.2.

(UNIVERSITY OF LONDON)

PRIMARY F.R.C.S. COURSE.

A Course of Instruction for the JUNE EXAMINATION will begin on THURSDAY, FEBRUARY 1ST, 1940, in the following subjects:—

ANATOMY AND EMBRYOLOGY.
PHYSIOLOGY AND HISTOLOGY (with Practical Classes).

Fee for the Course £16 16s., or £9 9s. for either section separately.

For further particulars apply to the School Secretary.

The Hostel of St. Luke (Clergy Nursing Home), 14, Fitzroy-square, London, W.1.

The Committee of Management invite applications for the post of RESIDENT MEDICAL OFFICER (Male) to the above Hostel.

Candidates must have had previous experience as House Surgeon at a General Hospital. The appointment is for six months, and may be renewable for a further period of six months. Salary at the rate of £200 per annum, with board, residence, and laundry. A fortnight's holiday will be allowed every six months, and the Locum will be paid by the Committee of the Hostel.

Applications, with three recent testimonials, should be addressed to the Secretary of the Hostel at 14, Fitzroy-square, London, W.1, and reach him before 3rd February. The successful applicant will be required to take up his duties on 10th February, 1940.

Royal National Orthopædic Hospital.

Applications are invited for the post of RESIDENT SURGEON and MEDICAL SUPERINTENDENT at the Royal National Orthopædic Hospital, Brockley Hill, Stanmore, Middlesex. Applicants must be Fellows of the Royal College of Surgeons of England.

In addition to the surgical work at the hospital the duties include attendance at various public health orthopædic clinics.

In normal times the salary is at the rate of £1250 a year and this rate obtains to the post. A house is also provided.

The hospital is at present a first base receiving hospital under the Ministry of Health Emergency Medical Service, and confirmation of the selection will be necessary by the Ministry before final appointment is made.

Applications should be received by the Secretary, Royal National Orthopædic Hospital, 234, Great Portland Street, London, W.1, from whom further particulars can be obtained, not later than Feb. 12.

British Postgraduate Medical School.

DEPARTMENT OF SURGERY.

There is a vacancy for a temporary FIRST ASSISTANT in the Surgical Unit of the British Postgraduate Medical School.

Candidates must be Fellows of the Royal College of Surgeons and have had some teaching experience. The duties include charge of beds and teaching of postgraduate students. Applicants should state whether they are prepared to undertake whole-time or part-time duties.

Further particulars may be obtained on application to the Dean.

Applications should be submitted to the DEAN, British Postgraduate Medical School, Ducane-road, W.12, not later than Tuesday, 30th January, 1940.

Royal Free Hospital,

Gray's Inn-road, London, W.C.1.

Applications are invited for the post of HONORARY OBSTETRIC SURGEON. Candidates must be Fellows of the Royal College of Surgeons of England.

Applications, accompanied by copies of three recent testimonials, should be sent to the undersigned on or before the 7th February, 1940.

RICHARD T. BARTLEY, Secretary.

Royal Free Hospital,

Gray's Inn-road, London, W.C.1.

Applications are invited for the whole-time post of ASSISTANT MEDICAL REGISTRAR. If the successful candidate is not remunerated by the Emergency Medical Service he or she will be paid by the Hospital at the rate of £200 per annum.

Intending candidates, who must be fully qualified and registered, should submit applications, stating age and accompanied by copies of three recent testimonials, to the undersigned (from whom all information may be obtained) on or before 10th February.

RICHARD T. BARTLEY, Secretary.

Royal Free Hospital,

Gray's Inn-road, London, W.C.1.

Applications are invited for the post of HONORARY ASSISTANT OBSTETRIC SURGEON. Candidates must be Fellows of the Royal College of Surgeons of England.

Applications, accompanied by copies of three recent testimonials, should be sent to the undersigned on or before the 7th February, 1940.

RICHARD T. BARTLEY, Secretary.

The Royal Cancer Hospital (Free)

(Incorporated under Royal Charter),
Fulham-road, London, S.W.3.

Applications are invited for the post of HOUSE SURGEON to commence duties on the 1st April, 1940. Candidates must be unmarried. Salary at the rate of £100 per annum. The appointment is for six months and subject to rules, a copy of which can be obtained from the Secretary.

Applications, to be made on a form which will be supplied by the Secretary, with copies only of not more than three testimonials, to be sent to the Secretary not later than the first post Wednesday, 14th February, 1940.

CLEMENT COBBOLD, Secretary.

Royal London Ophthalmic Hospital

(MOORFIELDS EYE HOSPITAL), City-road, E.C.1.

Applications are invited for the post of FIRST ASSISTANT MEDICAL OFFICER to attend not less than two mornings and not more than five mornings each week. Medical Officers are asked to state in their applications how many attendances they will be able to make.

Candidates must be registered Medical Practitioners.

Medical Officers will be required to assist the Honorary Surgeon and in his absence to take full charge of the work of the Clinic.

Salary will be paid at the rate of £1 per session.

Applications, with testimonials, stating age and qualifications, must be received by the undersigned not later than the 5th February, 1940.

A. J. M. TARRANT, Secretary.

Borough of Ealing.

MATERNITY AND CHILD WELFARE SERVICES.

WOMAN ASSISTANT MEDICAL OFFICER.

Applications are invited from duly qualified Medical Practitioners for the position of Woman Assistant Medical Officer.

The duties will mainly consist of work in connection with the Council's Maternity and Child Welfare Scheme, embracing attendance at the health centres, and medical attendance on patients in the Perivale Maternity Hospital. The person appointed will reside at this hospital, board and furnished rooms being provided for her.

Applicants must have had previous experience of maternity and child welfare work, and particularly of work in a maternity hospital.

The person appointed will be required to devote her whole time to the duties and will not be allowed to engage in private practice.

The salary will be at the rate of £450 per annum, rising by £25 per annum to a maximum of £550, plus board and residence as indicated above and valued at £150 per annum. A deduction will be made in accordance with the provisions of the Local Government and Other Officers' Superannuation Act, 1937, and the appointment will be subject to the candidate passing the Council's medical examination in connection therewith. Canvassing will be a disqualification.

Copies of the application form and terms of appointment can be obtained from Dr. Thomas Orr, Medical Officer of Health, Town Hall, Ealing, W.5, to whom applications, accompanied by copies of not more than three recent testimonials, must be delivered not later than Thursday, 8th February.

R. H. WANKLYN, Town Clerk.

Town Hall, Ealing, W.5.

London Jewish Hospital,
Stepney Green, E.1.

Applications are invited for the post of OUT-PATIENT MEDICAL REGISTRAR. The holder will be required to attend the Out-patient Department on three afternoons a week. Honorarium at the rate of £80 per annum.

Applications, with copies of testimonials, should be sent to the Secretary not later than Friday, 2nd February, 1940.

The Hospital for Sick Children,
Great North-road, NEWCASTLE UPON TYNE, 2.

Applications are invited for the following appointments:—
(a) One HOUSE PHYSICIAN.
(b) Two HOUSE SURGEONS.

Male or Female, for six months as from 1st March, 1940.

Salary at the rate of £100 per annum, together with board, residence, and laundry.

Applications, stating age and qualifications, together with copies of testimonials, to be sent to—

J. B. CAIRNCROSS, C.A.,
House Governor and Secretary.

January, 1940.

The Salvation Army,
THE MOTHERS' HOSPITAL,
Lower Clapton-road, Clapton, E.5.

Applications are invited from Medical Women for the appointment of OBSTETRIC REGISTRAR (Part time) at The Mothers' Hospital. A small honorarium is attached to this post and details may be obtained from the Secretary-Superintendent who should receive such applications by February 6th, 1940.

F. HAMMOND, Secretary-Superintendent.

The Salvation Army,
THE MOTHERS' HOSPITAL,
Lower Clapton-road, Clapton, E.5.

Applications are invited from Medical Women for the appointment of HONORARY CLINICAL ASSISTANT in the ANTE-NATAL DEPARTMENT on Friday mornings.

Applications should reach the Secretary-Superintendent by February 6th, 1940.

F. HAMMOND, Secretary-Superintendent.

Queen Mary's Hospital for the East
END, Stratford, London, E.15.

Applications are invited from fully qualified and registered Medical Men for the post of CASUALTY OFFICER.

The appointment will date from the 1st of February, 1940, and will terminate on the 30th of June, 1940. Salary at the present rate permitted by the Ministry of Health under the Emergency Medical Service, which will be at the rate of not less than £150 per annum.

Candidates must be single and must send applications, together with copies of testimonials, to the undersigned at once.

BERNARD T. HEMPEL (Captain), Chairman.

The London Homœopathic Hospital
(Incorporated by Royal Charter),
Great Ormond-street and Queen-square, W.C.1.
CASUALTY CLEARING STATION
SECTOR IV
EMERGENCY HOSPITAL SERVICE.

HOUSE PHYSICIAN.

The Board of Management invite applications for the appointment of House Physician, vacant March 1st.

The appointment is one of four resident medical posts which occur periodically during the year and is for a period of six months, with salary at a rate of £100 per annum, and board, apartments, and laundry.

Candidates must be legally qualified and must have been registered for not more than six months. Selected candidates will be required to attend a meeting of the Medical Committee for interview on February 14th.

Applications, stating age, with copies of testimonials, to be sent to the undersigned.

L. J. KNOWLES, Secretary.

City of Liverpool.
RESIDENT ASSISTANT MEDICAL OFFICERS.

CITY INFECTIOUS DISEASES HOSPITALS.

Applications are invited for the above appointments for a period of one year at a salary of £250 per annum, together with the usual residential allowances. The person appointed will not be allowed to engage in private practice and will be required to devote whole-time service to the duties of the office.

Candidates will be required to possess a registered Medical and Surgical qualification, and should have a knowledge of Bacteriological methods.

Applications to be made upon forms obtainable from the Medical Officer of Health, Hospitals Department, Gordon House, Belmont-grove, Liverpool, 6, to be endorsed "Resident Assistant Medical Officer," and returned to the undersigned so as to be received not later than 10 A.M. Wednesday, 7th February, 1940.

W. H. BAINES, Town Clerk.

Municipal Buildings, Dale-street, Liverpool, 2,
January, 1940.

County Borough of West Ham.
PUBLIC HEALTH DEPARTMENT.

PUBLIC ASSISTANCE COMMITTEE.

Applications are invited for the post of FIRST ASSISTANT RESIDENT MEDICAL OFFICER (Male) at the CENTRAL HOME, UNION-ROAD, LEYTONSTONE, at a salary of £525 per annum, rising by annual increments of £25 to a maximum of £600 per annum, together with apartments, board, and laundry. The salary is inclusive and any fees received must be paid to the Council.

This Institution accommodates chronic, sick, aged, and infirm patients, but the successful candidate must be prepared to serve in any other Institution of the Council and to carry out such other duties which may be assigned to him.

Candidates must be qualified registered Medical Practitioners, preference being given to candidates who have had, in addition to a general hospital appointment, experience in Poor-law Institutions.

The appointment will be subject to the Council's regulations as made from time to time regarding holidays, sick pay, &c., and to the provisions of the Local Government Superannuation Act, 1937, in connexion with which the successful candidate will be required to pass a medical examination and the statutory contributions will be deducted from the salary.

Forms upon which application must be made can be obtained from Dr. E. Ashworth Underwood, Medical Officer of Health, Public Health Department, 88, Romford-road, Stratford, E.15, on receipt of a stamped addressed foolscap envelope, and should be returned to the undersigned not later than 10th February, 1940.

Canvassing members of the Council is prohibited and will disqualify.

CHARLES E. CRANFIELD, Town Clerk.

Public Assistance Offices, Union-road, Leytonstone, E.11,
January, 1940.

Horton General Hospital, Banbury,
OXON. (60 Beds.)

RESIDENT MEDICAL OFFICER.

Applications are invited for the post of Resident Medical Officer (Female). Salary £150 per annum, with board and laundry. The appointment is for a period of six months, commencing 21st February, 1940. Candidates must be duly registered.

Applications, stating age, and accompanied by copies of any testimonials, to be sent to the undersigned not later than Monday, 5th February, 1940.

By Order.
RICHARD H. PRESCOTT, Secretary and House Governor.

County Borough of Oldham.
MUNICIPAL HOSPITAL.

RESIDENT ASSISTANT MEDICAL OFFICER.

Applications are invited from registered Medical Practitioners for the post of Resident Assistant Medical Officer. Applicants must not be over forty-five years of age. Experience of anæsthetics is desirable.

Salary £200 per annum, with board, residence, and laundry.

Candidates should be unmarried.

The appointment will, in the first instance, be for a period of six months. The successful applicant, however, will be eligible for reappointment for a further period of six months.

The person appointed will be required to pass a medical examination, and to contribute to the Superannuation Fund of the Corporation.

The Hospital comprises 375 beds, with facilities for gaining experience in medicine, surgery, midwifery, and the diseases of children.

Canvassing or submitting testimonials from members of the Council or of any Committee appointed by the Council will be a disqualification.

Application forms and conditions of appointment may be obtained from the Medical Officer of Health, Town Hall, Oldham, and should be returned endorsed "Resident Assistant Medical Officer," not later than 9 A.M. on the 12th February, 1940.

THOMAS ALKER, Town Clerk.

Town Hall, Oldham, 23rd January, 1940.

Addenbrooke's Hospital, Cambridge.

Applications are invited for the post of HOUSE SURGEON. The appointment will be for six months from March 1st, 1940, but is terminable at an earlier date by one month's written notice on either side. Salary will be at the rate of £130 per annum, with board, residence, and laundry.

Candidates (Male), who must be unmarried and duly registered, are requested to forward their applications, stating age, qualifications, &c., together with copies of not more than four testimonials, to the undersigned on or before Wednesday, February 7th, 1940.

J. A. BEARDSALL, Secretary-Superintendent.

The Royal Infirmary, Sunderland.
(288 Beds.)

HOUSE PHYSICIAN (Male) required for six months. Salary at the rate of £120 per annum, with board, residence, laundry, &c.

Applications, stating age and qualifications, and accompanied by copies of testimonials, to be sent to the undersigned.

M. J. HUNTLEY, House Governor and Secretary.

The Royal Hospital, Wolverhampton.

(Incorporated under Charter.)

HOUSE SURGEON (FRACTURE AND ORTHOPÆDIC DEPT.) required. Salary £100 per annum. Duties to commence forthwith.

The Hospital contains 300 beds, includes the usual special departments, and is recognised by the various Examining Bodies for a part of the requisite attendance on Medical and Surgical Practice.

Candidates must be registered under the Medical Acts and unmarried.

The appointment is for six months. Board, furnished room, and laundry provided. Applications, with copies of testimonials, to be forwarded to the undersigned.

W. H. HARPER, House Governor.

Wolverhampton, 22nd January, 1940.

Borough of Dagenham.

ASSISTANT MEDICAL OFFICER OF HEALTH (MATERNITY AND CHILD WELFARE), Male or Female.

Applications are invited from duly qualified Medical Practitioners for the above appointment. Commencing salary £550 per annum, rising (subject to satisfactory service) by annual increments of £25 to a maximum of £700 per annum.

Previous experience in antenatal and maternity and child welfare work is essential.

The person appointed will be required to devote the whole of his or her time to the duties of the office, which will consist mainly of maternity and child welfare work but may also include duty in any section of the health services of the Borough.

Application forms and further particulars are obtainable from the Medical Officer of Health, at the undermentioned address.

Closing date Monday, 12th February, 1940 (first post).

Canvassing disqualifies.

F. W. ALLEN, Town Clerk.

Civic Centre, Dagenham.

King George's Sanatorium for Sailors,

LIPHOOK, HANTS (Seamen's Hospital Society), for Treatment of Pulmonary and Non-Pulmonary Tuberculosis. —ASSISTANT MEDICAL OFFICER, single, Male, required as from the 1st March, 1940, for six months. Salary at the rate of £200 per annum in the first instance.

Applications, with copies of not less than three testimonials, to be sent in to the undersigned.

F. A. LYON, Secretary,
Seamen's Hospital Society, Greenwich, S.E.10.

Greenwich, 22nd January, 1940.

The Southampton Children's Hospital

AND DISPENSARY FOR WOMEN.

The Board of Management invite applications for the post of RESIDENT MEDICAL OFFICER (Lady). Salary at the rate of £150 per annum, with board, residence, and laundry.

Applications, stating age, and accompanied by copies of testimonials, to be sent to the undersigned not later than 15th February, 1940. The selected candidate will be required to take up her duties on 1st March, 1940. The appointment is for six months.

ELLA K. MATTHEWS, Secretary.

Borough of Erith.

APPOINTMENT OF MEDICAL OFFICER OF HEALTH AND SCHOOL MEDICAL OFFICER.

The Council invite applications for the above appointment from qualified registered Medical Practitioners who, in addition to the qualification prescribed by any statute, are also registered in the Medical Register as holding a Diploma in Sanitary Science, Public Health, or State Medicine.

The appointment will be subject to the successful candidate passing a medical examination, to the approval of the Minister of Health, and to the provisions of the Sanitary Officers (Outside London) Regulations, 1935, the Local Government Act, 1933, and the Local Government Superannuation Act, 1937.

The person appointed will be required to perform all the duties imposed on a Medical Officer of Health under the relevant Acts and Orders, to act as Medical Officer to the Maternity Home and Maternity and Child Welfare Centres and as Medical Superintendent of the Isolation Hospital, and to carry out such other duties as the Council may from time to time direct. He will be required to reside within the Borough, to devote his whole time to the duties of the office, and he will not be permitted to engage in private practice.

The person appointed will be required to enter into an Agreement of Service with the Council, and to give three months' notice to determine the appointment.

Applicants must not be over forty-five years of age. The inclusive salary attaching to the office will be £800 per annum, rising by three annual increments of £50 to a maximum salary of £950 per annum, together with £50 per annum as a car allowance.

Applications, stating age, qualifications, and experience, accompanied by copies of not more than three recent testimonials, must be delivered to the undersigned at the Council Offices, Erith, not later than NOON on Saturday, the 10th February, 1940.

Canvassing, either directly or indirectly, will be a disqualification.

DOUGLAS S. TWIGG, Town Clerk.

Town Clerk's Office, Erith, 19th January, 1940.

Kent and Canterbury Hospital,

CANTERBURY. (183 Beds. 4 R.M.O.'s.)

HOUSE SURGEON required, Male, unmarried. Six months' appointment, commencing early February, 1940. Salary £125 per annum, with board, residence, and laundry. The Hospital is recognised under F.R.C.S regulations.

Applications, together with copies of testimonials, should be sent to the undersigned.

J. F. KENT, Superintendent and Secretary.

Clayton Hospital, Wakefield.

There are vacancies for (1) an ORTHOPÆDIC HOUSE SURGEON and (2) a JUNIOR HOUSE SURGEON.

The Orthopædic House Surgeon must have previous Fracture experience. Salary will be according to qualifications but will be not less than £150 per annum, plus board.

Junior House Surgeon. Candidates must have graduated within the past six months. The post is recognised by the Royal College of Surgeons as giving the necessary residential qualifications. Salary £150 per annum, plus board.

In both cases applications should be sent to the undersigned, together with three recent testimonials, immediately. Candidates must be Male, British, and unmarried, and should state age and Service commitments if any.

T. F. W. MACKEOWN,
General Superintendent and Secretary.

UNIVERSITY OF BRISTOL

The University invites applications for a full-time LECTURER (Grade II) IN DENTAL PROSTHESIS. Salary £500 to £600 per annum, according to qualifications and experience.

Full particulars may be obtained from the undersigned, with whom application should be lodged not later than February 10th, 1940.

WINIFRED SHAPLAND,
Secretary and Registrar.

UNIVERSITY OF BRISTOL

The University invites applications from qualified Medical Practitioners for appointment as REGISTRAR to the Cancer Research Committee. Salary at the rate of £400 per annum.

Further particulars may be obtained from the undersigned, to whom applications should be sent not later than February 10th, 1940.

WINIFRED SHAPLAND,
Secretary and Registrar.

County Borough of Smethwick.

ST. CHAD'S HOSPITAL, BIRMINGHAM.

HOUSE SURGEON.

Applications are invited from registered Medical Practitioners for the appointment of House Surgeon at the Council's Municipal Hospital. The appointment will be for a period of six months, with salary at the rate of £150 per annum with the usual emoluments. If the successful candidate is reappointed for a further period of six months, the salary will be at the rate of £200 per annum. St. Chad's Hospital contains 147 Beds, and the cases treated include general medical, acute surgical and maternity patients. The Consultant Staff is provided by the Birmingham teaching hospitals.

Applications, giving full particulars of qualifications and experience, should be addressed to the Medical Superintendent, St. Chad's Hospital, Hagley-road, Birmingham, 16, and should be accompanied by copies of three recent testimonials.

FRANK CHAPMAN, Town Clerk.

Council House, Smethwick, 17th January, 1940.

The Royal Sea-Bathing Hospital,

MARGATE. (320 Beds.)

Applications are invited from Practitioners within six months of registration for the post of HOUSE SURGEON. The appointment will be for a period of six months at a salary at the rate of £200 per annum, with full board, residence, &c., in addition. The selected candidate will be required to commence his duties immediately.

The Hospital is mainly for the treatment of Surgical Tuberculosis and the duties, therefore, are chiefly surgical.

Applications, accompanied by copies of recent testimonials, should be forwarded to the Secretary, R.S.B.H. Offices, 15, York-buildings, Adelphi, W.C.2.

County Borough of Oldham.

PUBLIC HEALTH DEPARTMENT.

APPOINTMENT OF DEPUTY MEDICAL OFFICER OF HEALTH AND ASSISTANT TUBERCULOSIS OFFICER.

Applications are invited for the position of Deputy Medical Officer of Health and Assistant Tuberculosis Officer. Applicants must be registered Medical Practitioners and hold a Diploma in Public Health or similar qualification, and also have previous experience in General Medicine, Surgery, and Public Health work. Special experience in Tuberculosis is essential. The age-limit for new entrants to the Corporation service is forty-five.

The successful candidate will also be appointed to the Staff of the Education Committee as Deputy School Medical Officer of Health, and will undertake duties in the School Medical Department. He should also have experience of work under the Mental Deficiency Acts and in connexion with Air-raid Precautions Schemes.

The person appointed will be required to reside in the Borough and to devote the whole of his time to the duties of the office and to perform such duties in connexion with the Public Health and Medical Services of the Council as shall from time to time be determined.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a satisfactory medical examination.

The salary will be an inclusive one and cover all duties, and will commence at £750 per annum and rise by annual increments of £25 to £850 per annum. The person appointed will be required to account for and hand over to the Council all fees and other payments received by him.

The appointment may be determined by three months' notice on either side.

Canvassing or submitting testimonials from members of the Council or of any committee appointed by the Council will be a disqualification.

Forms of application and conditions of appointment may be obtained from the Medical Officer of Health, Public Health Department, Town Hall, Oldham, and must be returned to him, accompanied by copies of three recent testimonials, on or before the 7th of February, 1940.

THOMAS ALKER, Town Clerk.

Town Hall, Oldham, 15th January, 1940.

Ancoats Hospital, Manchester, 4.

HOUSE SURGEONS (Two), Lady or Gentleman, required to commence duty on 1st March. One for ORTHOPÆDIC DEPARTMENT and one for EAR, NOSE, AND THROAT DEPARTMENT and to act as House Physician to one of the Honorary Physicians. Appointments for six months. Salary £100 per annum, with board, residence, laundry, &c.

Applications, stating age, experience (if any), and qualifications, to be forwarded to the undersigned, together with copies of three recent testimonials, on or before 31st January.

By Order of the Board.

HERBERT J. DAFFORNE,
General Superintendent and Secretary.

The Royal Infirmary, Bradford.

RESIDENT SURGICAL OFFICER (Male) required to supervise the work of five House Surgeons, and be generally responsible for the surgical work of the Hospital.

Candidates must be single, have had previous hospital experience, and a special surgical qualification. Salary £250 per annum, with board, residence, and washing.

There are 345 Beds and ten resident officers.

Applications, stating age, qualifications, and previous experience, with copies of not more than three recent testimonials, to be received by the undersigned not later than 9th February.

H. TRUSSON, House Governor and Secretary.

Dated 15th January, 1940.

Royal Infirmary, Bradford.

One or more HOUSE SURGEONS (Male) wanted immediately. Six months' appointment.

Candidates must be single and legally qualified. Salary £150 per annum, with board, residence, and washing.

There are 345 Beds and 10 resident officers.

Applications, stating age, qualifications, and previous experience with copies of recent testimonials, should be sent to the undersigned as soon as possible.

H. TRUSSON, House Governor and Secretary.

16th January, 1940.

Dorset County Hospital, Dorchester.

APPOINTMENT OF HOUSE SURGEON.

The Committee of Management are open to receive applications for the position of House Surgeon (Male only) to take up his duties about the middle of March, 1940.

Every candidate must be unmarried and possess a registered qualification to practise medicine and surgery from some recognised body in Great Britain or Ireland. Salary £150 per annum, with board and lodging. The appointment is for a period of six months.

All applications, accompanied by copies of three recent testimonials, should be sent to the Secretary, Dorset County Hospital, by 7th February, 1940.

Candidates must be of British birth and nationality.

Birmingham United Hospital.

(The General Hospital, the Queen's Hospital, The Queen Elizabeth Hospital.)

Applications are invited for the post of REGISTRAR to the EAR, NOSE, AND THROAT DEPARTMENT (non-resident).

Candidates must be registered Medical Practitioners. Preference will be given to candidates who have held a resident appointment in a Teaching Hospital.

The appointment is an annual one, the holder being eligible for re-election.

Salary at the rate of £150 per annum.

Applications must be sent to the undersigned (from whom all further particulars can be obtained), stating age, experience, and qualifications, with copies of recent testimonials, not later than Friday, February 2nd.

G. HURFORD, Secretary, Birmingham United Hospital.

The Queen Elizabeth Hospital, Edgbaston, Birmingham, 15, January 15th, 1940.

County Borough of Swansea.

PUBLIC HEALTH DEPARTMENT.

HILL HOUSE ISOLATION HOSPITAL.

RESIDENT MEDICAL OFFICER (Male or Female).

Applications are invited from registered Medical Practitioners of either sex for the post of Resident Medical Officer. Previous experience not essential. The appointment is limited to one year, will not be renewable, and will be terminable at any time within the year by one month's notice on either side.

Salary £200 per annum, with board, residence, and laundry.

Applications, stating age and qualifications, with copies of not less than three recent testimonials, should be sent to the Medical Officer of Health, The Guildhall, Swansea, not later than January 31st, 1940.

Bristol General Hospital.

(Branch of the Bristol Royal Hospital.)

TEMPORARY RESIDENT SURGICAL OFFICER AND REGISTRAR (MALE).

The Committee invites applications for the appointment. Salary at the rate of £200 per annum (plus estimated emoluments of £200 per annum), with board, residence, &c., provided in the Hospital. Candidates must be registered under the Medical Acts and produce testimonials of good personal character and ability. The duties attaching to the post are chiefly surgical, but being also in part administrative, experience in this direction is therefore essential.

Applications, accompanied by copies of testimonials, to be forwarded to the undersigned on or before Saturday, February 10th, from whom forms of application and copies of the duties may be obtained.

The Hospital contains 277 Beds, and is a School of Medicine attached to the University of Bristol.

THOMAS W. GREGG, F.C.C.S., Secretary.

Wolverhampton and Midland Counties EYE INFIRMARY.

HOUSE SURGEON wanted. Ophthalmic experience preferred. Duties to commence towards the end of February, 1940. There are 70 beds for in-patients and large out-patient department. Salary £150 a year, with furnished apartments, board, and laundry.

Ladies and gentlemen applying should state age and experience, and send copies of three recent testimonials to reach the Secretary not later than first post 6th February.

The Eye Infirmary is recognised as a Hospital at which a full course of instruction for admission to the D.O.M.S. may be taken.

EUSTACE LEES, Secretary.

15th January, 1940.

Wingfield-Morris Orthopædic HOSPITAL, HEADINGTON, OXFORD.

THE LORD NUFFIELD SCHOLARSHIP IN ORTHOPÆDIC SURGERY.

Male. £200 per annum, with board and residence for two years followed by £100 for three months' travel. Orthopædic experience essential.

Further information may be obtained from Professor H. J. SEDDON, to whom applications should be sent before March 1st.

Royal Manchester Children's Hospital,

PENDLEBURY, Near MANCHESTER.
(232 Beds.)

RESIDENT SURGICAL OFFICER.

Applications are invited for the post of Resident Surgical Officer. Salary £150 per annum. The appointment is for a period of six months commencing 1st March.

Candidates must be unmarried and duly registered. Previous hospital experience essential. Candidates holding, or working for, a higher surgical qualification preferred.

Applications, stating age and accompanied by copies of not more than three recent testimonials, to be sent to the undersigned not later than Wednesday, 31st January.

By Order.

H. HEARDMAN, Secretary.

Bedford County Hospital.

Wanted at once, SECOND HOUSE SURGEON for a term of not less than six months. Must be Male, unmarried, and fully qualified. Salary £150 per annum, with board, lodging, and laundry.

Applications, stating age, nationality, and qualifications, together with three recent testimonials, to be sent to the Secretary, Hon. Medical Staff Committee.

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Applications are invited for the following post, vacant on 1st February, 1940.

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Applications, stating age, nationality, qualifications, &c., together with copies of testimonials, should reach the undersigned as soon as possible.

JOHN WILLIAMS, Secretary-Superintendent.

The Royal Liverpool Children's

HOSPITAL, Myrtle-street, LIVERPOOL, 7.

The Committee invite applications for the appointment of an ANÆSTHETIST. Ordinary attendances, two sessions weekly. Honorarium £50 per annum.

Applications should be forwarded to the Secretary of the Hospital, at the above address, by first post Thursday, February 8th, 1940.

Manchester Royal Eye Hospital.

JUNIOR HOUSE SURGEON required. Salary £120 per annum, with residence, board, &c.

Applications (with copies of testimonials), endorsed "House Surgeon," to be addressed to the undermentioned.

H. R. NORTH, General Superintendent and Secretary.

City of Plymouth.

CITY GENERAL HOSPITAL.

APPOINTMENT OF DEPUTY MEDICAL SUPERINTENDENT.

(Temporary.)

Applications are invited from fully qualified Medical Practitioners for the temporary post (probably for the duration of the war) of Deputy Medical Superintendent, City Hospital, Plymouth.

The appointed candidate will work under the direction of the Medical Superintendent. The duties are mainly medical and candidates should have had post-graduate medical experience. Preference will be given to candidates possessing a higher medical qualification.

Salary at the rate of £450 per annum, rising by annual increments of £50 to £550, with full residential emoluments.

The appointment will be held during the pleasure of the Council and will be subject—

(1) to candidates passing a medical examination;

(2) to six weeks' notice on either side.

The Officer will be required to refund to the Council all fees, allowances, and emoluments, other than the foregoing, received by him.

Further particulars of the office may be obtained from the Medical Superintendent, the City Hospital, Plymouth.

Forms of application may be obtained from the undersigned, to whom they should be returned, accompanied by copies of not more than three recent testimonials, not later than Friday, 9th February, 1940.

T. PEIRSON, Medical Officer of Health.

County Borough of Blackburn.

PUBLIC ASSISTANCE DEPARTMENT.

RESIDENT JUNIOR ASSISTANT MEDICAL OFFICER.

Applications are invited from Medical Practitioners (Male) for the appointment of a Resident Junior Assistant Medical Officer at QUEEN'S PARK HOSPITAL AND INSTITUTION.

The Staff consists of a Resident Medical Officer, a Resident Assistant Medical Officer, a Consulting Surgeon, a Laboratory Assistant, and an X-ray Attendant.

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The person appointed will be required to devote his whole time to the duties and also to act as may be directed by the Resident Medical Officer.

The appointment will be limited to a term not exceeding one year.

Salary at the rate of £200 per annum, together with board, apartments, and attendance.

Applications, stating age, qualifications, and experience, accompanied by copies of not more than three recent testimonials, must be sent to the Public Assistance Officer, Public Assistance Offices, Cardwell-place, Blackburn.

CHAS. S. ROBINSON, Town Clerk.

Town Hall, Blackburn, 22nd January, 1940.

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Applicant must state age, place and date of graduation, professional qualifications, and all particulars of previous experience in X Ray Therapy, and must forward a recent photograph and professional and personal testimonials. A medical certificate of physical fitness at the time of application is essential.

Canadian graduates must hold qualifications registrable in England.

Candidates holding a United States degree must be registered in the State of New York.

Applications, to be forwarded by Air Mail, will be received up to 31st March, 1940, and should be addressed to the Medical Superintendent, General Hospital, Barbados, B.W.I., from whom further particulars may be obtained.

By order,

W. GOODMAN, Secretary.

City of Birmingham.

MATERNITY AND CHILD WELFARE DEPARTMENT.

The Public Health Committee invite applications from qualified Medical Women to act as MEDICAL OFFICER in the above Department to take up duties on March 28th.

The duties include attendance at maternity and child welfare centres and practical obstetrics.

Applicants should have had a six months' resident appointment in a children's hospital and in a maternity hospital. The D.P.H. will be considered an additional qualification.

The salary scale is £500, rising by £25 annually to £700 per annum; the commencing salary within that scale depends on the medical officer's obstetrical experience. A car allowance is made. It will be necessary to reside in close proximity to one of the City Maternity Homes.

The appointment will be subject to membership of the Birmingham Corporation Superannuation Scheme, and to the candidate passing a medical examination, and will be subject to three months' notice on either side.

Applications endorsed "Medical Officer for Maternity and Child Welfare," and accompanied by copies of three recent testimonials, to be made on a form obtainable from the Medical Officer of Health, Council House, Birmingham, 3, and returned to him on or before February 17th, 1940.

City of Portsmouth.

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Applicants must be single Gentlemen, duly qualified and registered, not exceeding thirty years, and must have had at least one year's experience of hospital work. Experience in anæsthetics will be an additional qualification. The appointment is limited to a term of one year and the salary will be £250 per annum, with residential emoluments valued at £125 per annum.

Application forms may be obtained from and must be returned to the Acting Medical Officer of Health, The Guildhall, Portsmouth, not later than Wednesday, 14th February, 1940.

Canvassing will be a disqualification.

F. J. SPARKS, Town Clerk.

The Guildhall, Portsmouth, January, 1940.

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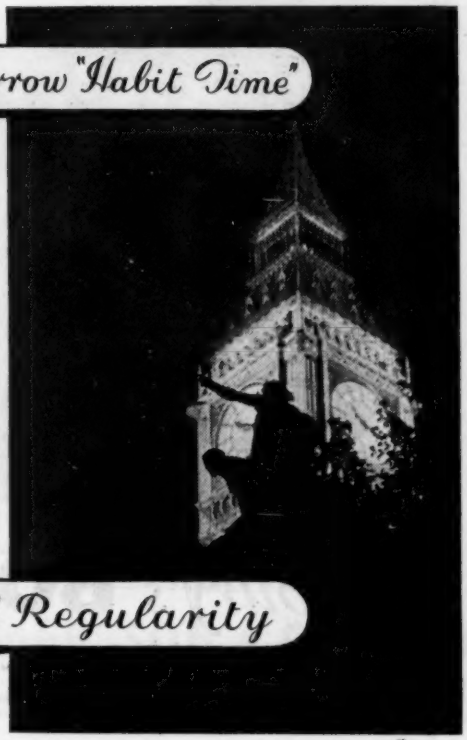

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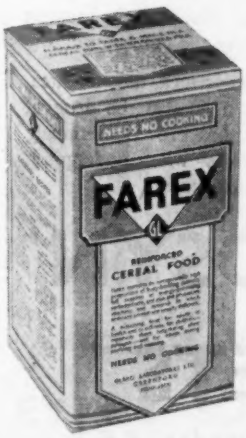

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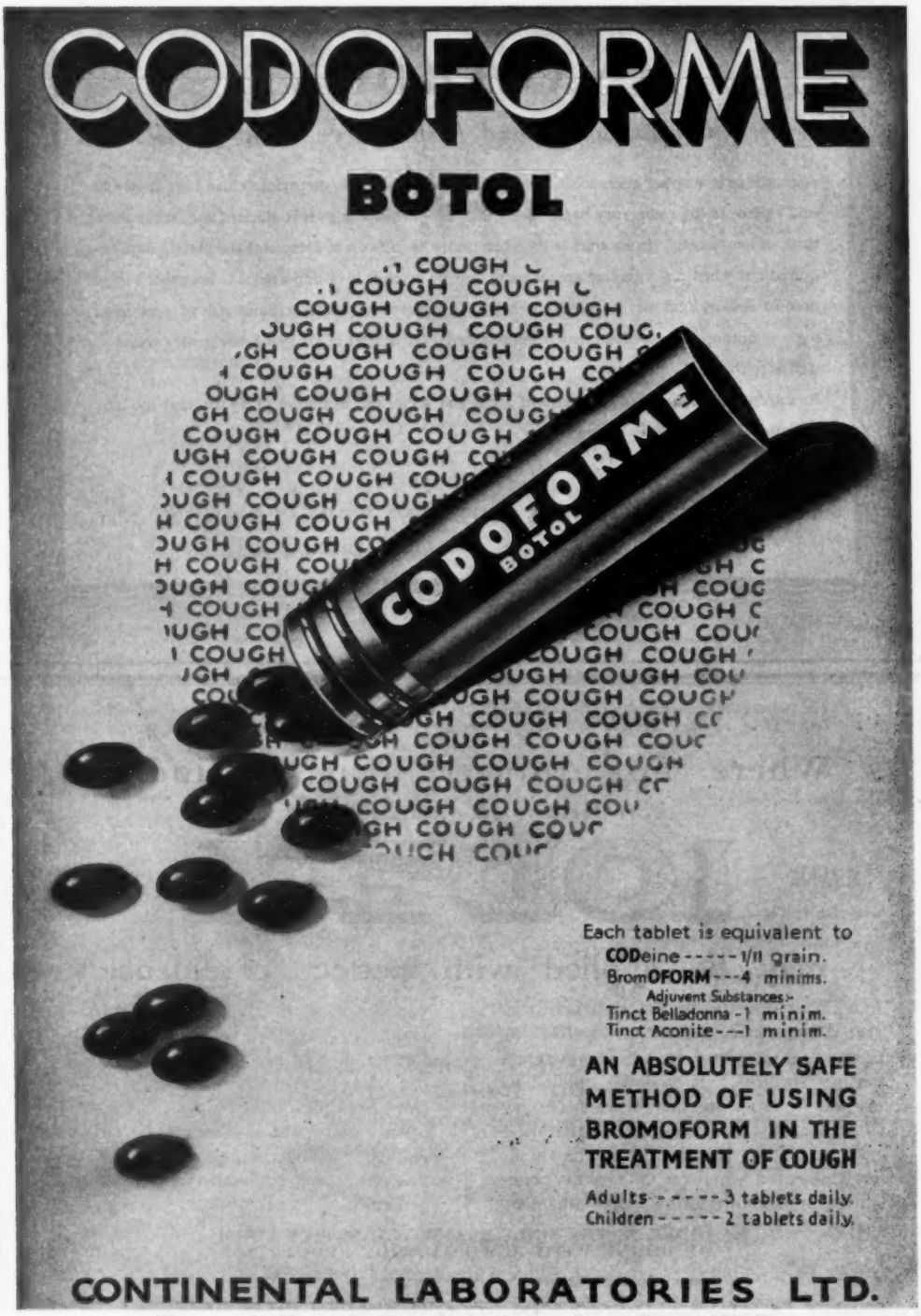

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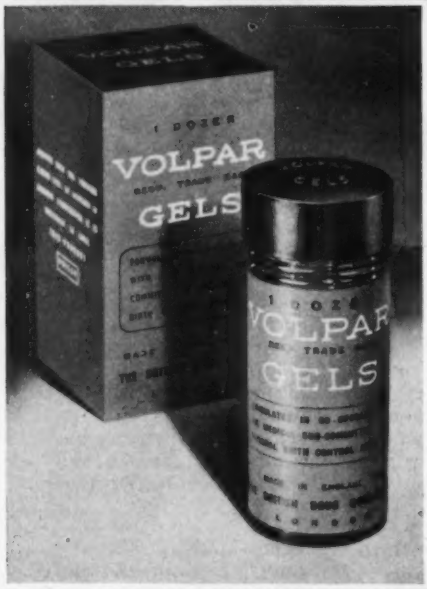

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Therapeutically equivalent to several times its weight of Sodium Salicylate without causing headache, tinnitus, &c. Has proved most useful in the external treatment of pure Rheumatism, Sciatica, Lumbago, &c. The external dose is about one drachm rubbed over the affected parts.

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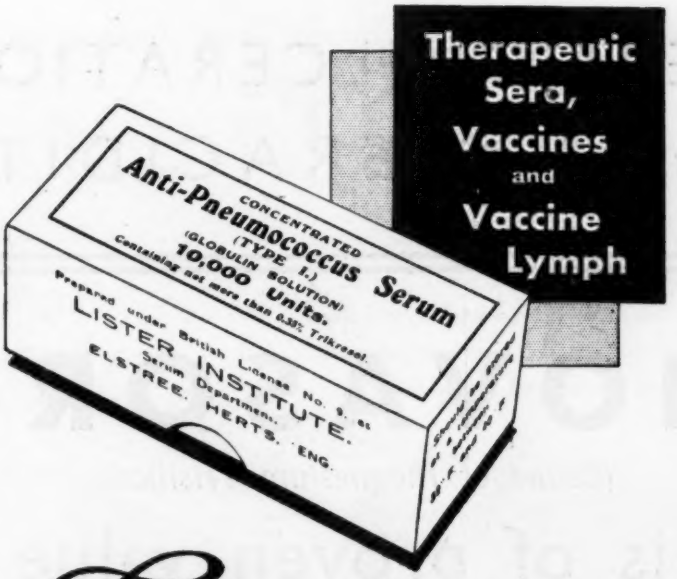

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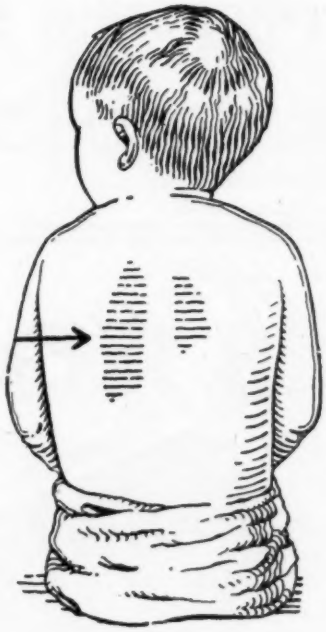

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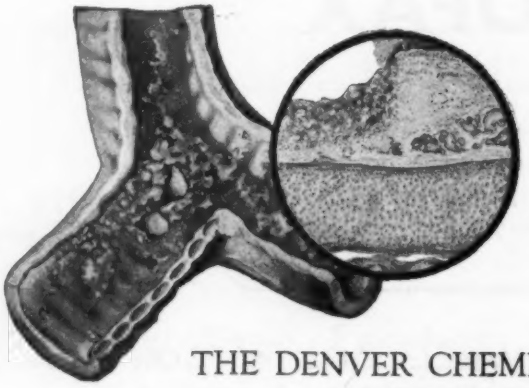

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[*See also pp.* 15 & 31]

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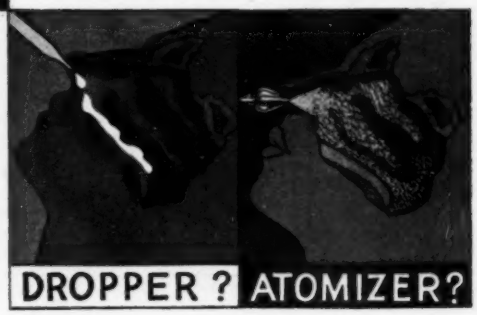

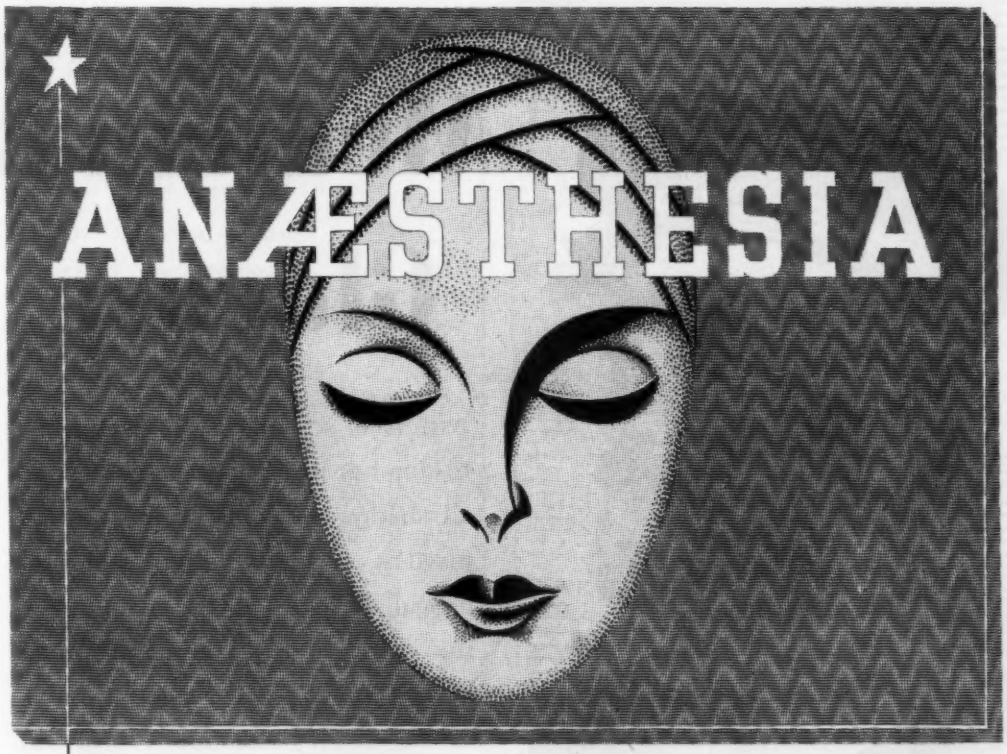

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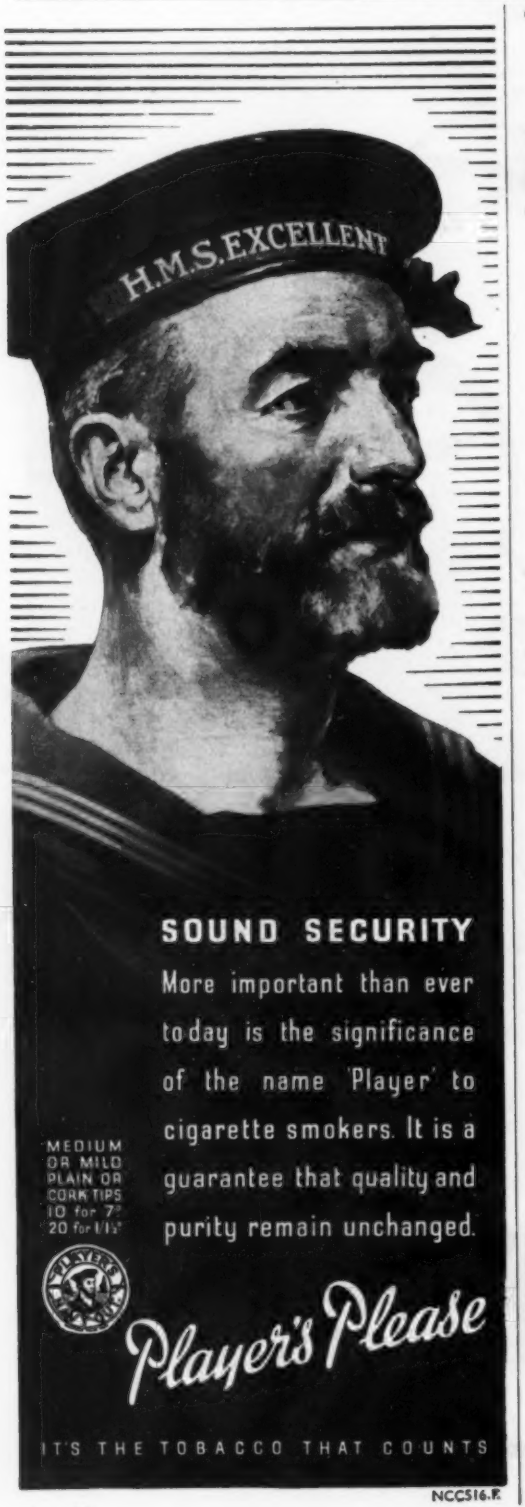

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HORACE H. REW, Secretary.

Royal College of Physicians of London.

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Inclusive fees from £110 p.a. *THOSE UNABLE TO PAY FULL FEES* admitted by votes of subscribers with part payment towards cost.

RECREATIONS: Outdoor games. MALE STAFF BAND for Concerts, Dancing, etc.

Apply: THE MEDICAL SUPERINTENDENT, Earlswood, Redhill, Surrey. *'Phone:* REDHILL 344.

VALE OF CLWYD SANATORIUM

This Sanatorium is established for the treatment of Tuberculosis of the Lungs and the Pleural Cavities. It is situated in the midst of a large area of park-land at a height of 450 feet above sea-level, on the South West slopes of mountains rising to over 1800 feet, which protect it from north and east winds and provide many miles of graduated walks with magnificent views. Average rainfall 29·57 per annum. Full day and night Nursing Staffs. X-Ray plant. Every facility for Artificial Pneumothorax and for operations on the chest. Electric Lighting. Central Heating. Home Farm. Grade A Milk from T.T. Herd.

For particulars apply to Medical Superintendent.

H. MORRISTON DAVIES, M.D., M.Ch. (Cantab.), F.R.C.S., Llanbedr Hall, Ruthin, N. Wales.

RUTHIN CASTLE, NORTH WALES

A Clinic for the diagnosis and treatment of Internal Diseases (except Mental or Infectious Diseases).

The Clinic is provided with a staff of doctors, technicians and nurses.

The surroundings are beautiful. The climate is mild. There is central heating throughout. The annual rainfall is 30·5 inches, that is, less than the average for England.

The inclusive weekly fees are from 15 guineas a week, according to the room occupied; rooms with bathroom are from 21 guineas. An examination and consultation fee of 15 guineas is charged on the first visit only.

SPECIAL FEE FOR INVESTIGATION ONLY—30 GUINEAS, including stay up to 10 days and report to doctor. For particulars, apply to

THE SECRETARY, Ruthin Castle, North Wales.

Telegrams: Castle, Ruthin. *Telephone:* Ruthin 66.

"STRATHMORE"

FILSHAM PARK ST. LEONARDS-ON-SEA

A PRIVATE NURSING HOME for the Treatment of TUBERCULOSIS (both sexes). Standing in own grounds 200 feet above sea level. Sheltered from north and east. Outstanding sea and land views all rooms. Individual treatment, complete privacy. Revolving modern chalets. Electric light and fires and radio (earphones) all rooms and chalets. Fully qualified nursing staff. A "home from home." Resident proprietors.

BROCHURE ON REQUEST — 'Phone: HASTINGS 1127 — 'Grams: "STRATHMORE" ST. LEONARDS-ON-SEA

HAYDOCK LODGE,

NEWTON-LE-WILLOWS, LANCASHIRE.

For the reception and treatment of PRIVATE PATIENTS of both sexes of the UPPER AND MIDDLE CLASSES suffering from Mental and Nervous Disorders, Alcoholism and Drug addiction, either voluntarily, temporarily, or under certificate. Patients are classified in separate buildings according to their mental condition. Situated in park and grounds of 400 acres. Self-supported by its own farm and gardens in which patients are encouraged to occupy themselves. Every facility for indoor and outdoor recreation. For terms, prospectus, etc., apply MEDICAL SUPERINTENDENT. *'Phone:* Ashton-in-Makerfield 7311. *Tele. Address:* Street, Ashton-in-Makerfield.

MUNDESLEY SANATORIUM

NORFOLK

Resident Physicians:

S. VERE PEARSON, M.D. (Cantab.), M.R.C.P. (Lond.).

E. C. WYNNE-EDWARDS, M.B. (Cantab.), F.R.C.S. (Edin.).

GEORGE H. DAY, M.D. (Cantab.).

TERMS FROM 7½ GUINEAS WEEKLY

For all information apply: THE SECRETARY.

Telephone: Mundesley 94 and 95 (2 lines)

HOLLOWAY SANATORIUM VIRGINIA WATER

A Registered Hospital for the Treatment of MENTAL DISORDERS of the EDUCATED CLASSES. Founded by THOMAS HOLLOWAY in 1885.

This Institution is situated in a beautiful and healthy locality within easy reach of London. It is fitted with every comfort. Patients can have Private Bedrooms and Special Nurses as well as the use of General Sitting Rooms, at moderate rates of payment. Voluntary Patients can be admitted.

There is a Branch Establishment at CANFORD CLIFFS, BOURNEMOUTH, where Patients can be sent for a change and be provided with all the comforts of a well-appointed home.

For Terms, apply to—

The RESIDENT MEDICAL SUPERINTENDENT, St. Ann's Heath, Virginia Water, SURREY

CRICHTON ROYAL, DUMFRIES For NERVOUS AND MENTAL DISORDERS

Separate Villa for patients suffering from the effects of alcoholism and drug addiction. Every facility for complete investigation and individual treatment on the most modern lines. Fully equipped gymnasium, golf course, and indoor swimming pool Specially trained occupational and recreational therapists. Private rooms, suites, and special nurses available. As the hospita is well endowed terms are exceptionally moderate, e.g., First Department from 3 guineas per week, Second Department, 2 and 2½ guineas per week. Voluntary and certified patients are received. Medical Certificates given anywhere in the British Isles are valid for admission of patients. *For prospectus, necessary forms, and further information apply to:—*

Physician Superintendent, P. K. McCowan, J.P., M.D., F.R.C.P., D.P.M., Barrister-at-Law. Tel. Dumfries 1119

THE OLD MANOR SALISBURY

A Private Hospital for the Care and Treatment of those of both sexes suffering from MENTAL DISORDERS.

Extensive grounds. Detached Villas. Chapel. Garden and Dairy Produce from own farm. Terms very moderate.

CONVALESCENT HOME AT BOURNEMOUTH Detached Villas standing in 12 acres of ornamental grounds, with tennis courts, etc., which Voluntary, Temporary or Certified Patients may visit by arrangement for long or short period.

Illustrated Brochure on application to the Medical Superintendent. The Old Manor, Salisbury. Telephone: Salisbury 3216 and 3217.

THE COPPICE, NOTTINGHAM.

HOSPITAL FOR MENTAL DISEASES.

President: The Right Hon. LORD BELPER.

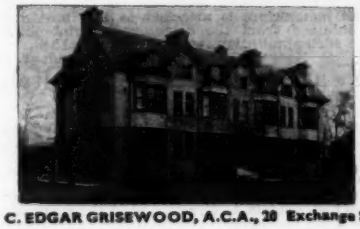
This Institution is exclusively for the reception of a limited number of PRIVATE PATIENTS of both sexes, of the UPPER and MIDDLE CLASSES, at moderate rates of payment. It is beautifully situated in its own grounds, on an eminence a short distance from Nottingham, and commands an extensive view of the surrounding country; and from its singularly healthy position and comfortable arrangements affords every facility for the relief and cure of those mentally afflicted. Voluntary and Temporary Patients received. Occupational Therapy. For terms, &c., apply to the Medical Superintendent.

Telephone: 64117 Nottingham.

HOME for EPILEPTICS, MAGHULL

(Near Liverpool)

FARMING and OPEN AIR OCCUPATION for PATIENTS



A few vacancies in 1st and 2nd Class Houses.

FEES:

1st Class (men only) from £5 5s. p.w. upwards.

2nd Class (men and women) 32/- p.w.

For further particulars apply Secretary,

C. EDGAR GRISEWOOD, A.C.A., 20 Exchange St. East, Liverpool

EPPING HOUSE

LITTLE BERKHAMSTED, Nr. HERTFORD, HERTS.

An attractive and comfortable PRIVATE HOME. Beautifully situated in its own grounds, 400 feet above sea level. Exceptionally healthy air and position affords every facility for convalescence. Foam Baths, Billiards, Squash Racquets, Lawn Tennis, Croquet, Bowls, Farm Produce, &c.

Treatment for Ladies and Gentlemen suffering from Insomnia, Functional Nervous Disorders, Alcohol and Drug Habits, Chronic Heart and Kidney Diseases, also Convalescing Cases.

Telephone: Essenden 212. *Apply,* J. C. BAKER, M.B.

Telegraphic Address: "Relief, Old Catton." Telephone: 290 Norwich.

NERVOUS & MENTAL AFFECTIONS

Ladies only received

The Grove, Old Catton, Norwich.

A High-class Home for the Curative Treatment of Nervous Affections. Voluntary Boarders are also received without certificates.

For full particulars apply to the Misses McLINTOCK or to Dr. S. BARTON, 34, Surrey-street, Norwich. Visiting Physician.

BOURNEMOUTH HYDRO

Ultra-Violet, Infra-Red, and Ultra-short-wave Diathermy Treatments

Pistany, Pyretic, Nauheim, and Medicated Baths.

Remedial Exercises; Massage; and Inhalation Therapy.

Plombières and Vichy Douches.

Resident Physician. Certificated Staff. Telephone: 341

A HAVEN of PEACE
for Rest and Recuperation

Magnificently situated in secluded grounds overlooking Torbay's lovely panorama, and adjoining the Medical Baths, the Imperial Hotel offers every facility for rest and speedy recovery. Every detail of service is conducive to comfort and happiness. Fine Tennis and Squash Courts, Resident International Professional; Free Golf, Private Miniature Course; Music and Dancing. Moderate Tariff. Special reduced terms to all Members of H.M. Forces, their wives and to long-term residents.

Write for Brochure to M. Chapman.

UNDER THE SAME DIRECTION

A charming Private Hotel, standing in the same grounds, which provides perfect service and all sports facilities at an even more moderate tariff. Central heating.

Brochure from Miss R. Richards.

BUNGALOW HOTEL
TORQUAY *Telephone* 4301

IMPERIAL HOTEL TORQUAY

Telephone 4301/5

TORQUAY'S PREMIER HOTEL

CHEADLE ROYAL HOSPITAL, Cheadle, Cheshire.

This REGISTERED HOSPITAL, with a SEASIDE BRANCH at Colwyn Bay, N. Wales, is for the treatment and care of those of the Upper and Middle Classes suffering from MENTAL AND NERVOUS DISEASES.

The Hospital is governed by a COMMITTEE, appointed by the TRUSTEES of the Manchester Royal Infirmary.

In addition to the Main Buildings there are separate villas. Extensive grounds. Hard and grass tennis courts, cricket and croquet grounds, and a court for badminton. There are also wireless installations. Golf may be had within easy distance. Occupational Therapy.

VOLUNTARY, TEMPORARY, AND CERTIFIED PATIENTS received.

The Hospital is nine miles from Manchester, 50 minutes by rail from Liverpool, and 3½ hours from London.

For terms and further particulars apply to the Medical Superintendent, who may be seen in Manchester BY APPOINTMENT *Telephone: Gatley* 2231 (3 lines).

COURT HALL, KENTON, near EXETER

FOR THE TREATMENT OF EIGHT LADIES, VOLUNTARY, TEMPORARY AND CERTIFIED PATIENTS

CLIFFDEN, TEIGNMOUTH

FOR EARLY AND CONVALESCENT CASES

Recreational Therapies are held daily by skilled Leaders

The house stands high with spacious balconies and extensive views of the South Devon Coast. Beautiful garden. Own Dairy in 25 acres. Private road to beach. There is also a charming house, EBWORTHY, MANATON, DARTMOOR, situated in 20 acres, 1100 ft. up for bracing moorland air.

Resident Physicians—BERTHA M. MULES, M.D., B.S. ANNE S. MULES, M.R.C.S., L.R.C.P.

Telephones—STARCROSS 59 and TEIGNMOUTH 289

PORTSMOUTH CITY MENTAL HOSPITAL

Accommodation is provided for the reception of PRIVATE PATIENTS of both sexes in three detached Villas, which are healthily and pleasantly situated in extensive grounds with sea views.

Charges from 3 guineas weekly, including all necessaries except clothing.—Apply to the Medical Superintendent and Resident Physician, THOMAS BEATON, O.B.E., M.D., F.R.C.P.

The Salvation Army,

THE MOTHERS' HOSPITAL,
Lower Clapton-road, Clapton, E.5.

Applications are invited from Medical Women for the appointment of HONORARY CLINICAL ASSISTANT in the ANTE-NATAL DEPARTMENT on Friday mornings.

Applications should reach the Secretary-Superintendent by February 6th, 1940.

F. HAMMOND, Secretary-Superintendent.

The Salvation Army,

THE MOTHERS' HOSPITAL,
Lower Clapton-road, Clapton, E.5.

Applications are invited from Medical Women for the appointment of OBSTETRIC REGISTRAR (Part time) at The Mothers' Hospital. A small honorarium is attached to this post and details may be obtained from the Secretary-Superintendent who should receive such applications by February 6th, 1940.

F. HAMMOND, Secretary-Superintendent.

Hampstead General Hospital,

Haverstock-hill, N.W.3.

Applications are invited from registered Medical Women for the resident appointment of CASUALTY SURGICAL OFFICER for six months, vacant 1st March next, at the OUT-PATIENT DEPARTMENT, BAYHAM-STREET, CAMDEN TOWN. Salary £100.

Applications, to be made on the prescribed form, together with copies of three testimonials, to be returned to the Secretary not later than the 17th February.

UNIVERSITY EXAMINATION POSTAL INSTITUTION

Founded in 1882

17, RED LION SQUARE, LONDON, W.C.1

EXPERT PREPARATION FOR ALL MEDICAL EXAMINATIONS

POSTAL COURSES : PRIVATE TUITION
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MEDICAL PROSPECTUS (47 pp.)

CONTENTS: The method and the cost of entering the Medical Profession. *Particulars of all Medical Examinations*, Postal Courses, and Oral Classes. Suggestions for the Higher Medical and Surgical Examinations. Suggestions for the Special Diploma Examinations. Refresher Courses. Openings for Women. Hints for writing theses.

Medical Prospectus gratis along with list of Tutors, &c., on application to the Principal, 17, Red Lion-square, London, W.C.1. (Telephone: HOLborn 6313.)

Hampstead General Hospital,
Hampstead, N.W.3.

Applications are invited from single Medical Men for the post of HOUSE SURGEON for six months, vacant 1st March next. Salary £100 per annum.

Applications, on the prescribed form, with copies of three testimonials, to be returned to the Secretary by 18th February.

Royal National Orthopædic Hospital,
234, Great Portland-street, W.1.

Applications are invited for the post of HOUSE SURGEON. Salary £200 per annum, with board, quarters, and laundry. Duties to commence March 1st.

The appointment is for six months, renewable for a further period on the recommendation of the Medical Board.

Applications, with copies of testimonials, should be addressed to the Secretary not later than February 12th.

Borough of Ealing.

MATERNITY AND CHILD WELFARE SERVICES.

WOMAN ASSISTANT MEDICAL OFFICER.

Applications are invited from duly qualified Medical Practitioners for the position of Woman Assistant Medical Officer.

The duties will mainly consist of work in connection with the Council's Maternity and Child Welfare Scheme, embracing attendance at the health centres, and medical attendance on patients in the Perivale Maternity Hospital. The person appointed will reside at this hospital, board and furnished rooms being provided for her.

Applicants must have had previous experience of maternity and child welfare work, and particularly of work in a maternity hospital.

The person appointed will be required to devote her whole time to the duties and will not be allowed to engage in private practice.

The salary will be at the rate of £450 per annum, rising by £25 per annum to a maximum of £550, plus board and residence as indicated above and valued at £150 per annum. A deduction will be made in accordance with the provisions of the Local Government and Other Officers' Superannuation Act, 1937, and the appointment will be subject to the candidate passing the Council's medical examination in connection therewith. Canvassing will be a disqualification.

Copies of the application form and terms of appointment can be obtained from Dr. Thomas Orr, Medical Officer of Health, Town Hall, Ealing, W.5, to whom applications, accompanied by copies of not more than three recent testimonials, must be delivered not later than Thursday, 8th February.

R. H. WANKLYN, Town Clerk.

Town Hall, Ealing, W.5.

St. Marylebone and Western General
DISPENSARY, 48, Cosway-street, N.W.1.

Applications are invited for the appointment of HONORARY GYNÆCOLOGIST to the Charity for the duration of the war. Every candidate should be a graduate in medicine of one of the universities of the United Kingdom or a Fellow of the Royal College of Surgeons, England, or Member of the Royal College of Physicians of London, and practising solely as a gynæcologist and obstetric physician.

Applications and copies of testimonials to the Secretary not later than 19th February.

Agricultural Research Council.

VACANCY FOR A BACTERIOLOGIST.

Applications are invited for a post of Research Officer on the permanent Scientific Staff of the Council for bacteriological work on the typing of animal (including avian) and human tubercle bacilli and for research on tuberculosis, especially of farm livestock.

Candidates must be British subjects and be thoroughly experienced bacteriologists, possessing a medical or a veterinary qualification. The candidate selected will be attached for the present to the Institute of Animal Pathology, Cambridge.

Salary from £750 to £1000 per annum, according to qualifications and experience, with superannuation under Federated Superannuation System for Universities; permanence subject to probationary period not exceeding two years.

Further particulars and form of application may be obtained from the Secretary, Agricultural Research Council, 6A, Dean's-yard, Westminster, S.W.1.

Completed forms returnable by 31st March, 1940.

Candidates abroad may make written application, giving date of birth, full particulars of academic and subsequent career, references to published papers, and names of two referees.

The Royal Cancer Hospital (Free)
(Incorporated under Royal Charter),
Fulham-road, London, S.W.3.

Applications are invited for the post of HOUSE SURGEON to commence duties on the 1st April, 1940. Candidates must be unmarried. Salary at the rate of £100 per annum. The appointment is for six months and subject to rules, a copy of which can be obtained from the Secretary.

Applications, to be made on a form which will be supplied by the Secretary, with copies only of not more than three testimonials, to be sent to the Secretary not later than the first post Wednesday, 14th February, 1940.

CLEMENT COBBOLD, Secretary.

The South London Hospital,
Clapham Common, S.W.4.

Applications are invited from Medical Women for the undermentioned appointment:—

HOUSE SURGEON

for a period of six months from 1st March, 1940. Salary at the rate of £100 per annum, with board, residence, and laundry.

Candidates are requested to call on members of the Hon. Medical Staff before Tuesday, 13th February, by which date applications and copies of testimonials must reach the Secretary at the Hospital.

County Borough of West Ham.

PUBLIC HEALTH DEPARTMENT.

PUBLIC ASSISTANCE COMMITTEE.

Applications are invited for the post of FIRST ASSISTANT RESIDENT MEDICAL OFFICER (Male) at the CENTRAL HOME, UNION-ROAD, LEYTONSTONE, at a salary of £525 per annum, rising by annual increments of £25 to a maximum of £600 per annum, together with apartments, board, and laundry. The salary is inclusive and any fees received must be paid to the Council.

This Institution accommodates chronic, sick, aged, and infirm patients, but the successful candidate must be prepared to serve in any other Institution of the Council and to carry out such other duties which may be assigned to him.

Candidates must be qualified registered Medical Practitioners, preference being given to candidates who have had, in addition to a general hospital appointment, experience in Poor-law Institutions.

The appointment will be subject to the Council's regulations as made from time to time regarding holidays, sick pay, &c., and to the provisions of the Local Government Superannuation Act, 1937, in connexion with which the successful candidate will be required to pass a medical examination and the statutory contributions will be deducted from the salary.

Forms upon which application must be made can be obtained from Dr. E. Ashworth Underwood, Medical Officer of Health, Public Health Department, 88, Romford-road, Stratford, E.15, on receipt of a stamped addressed foolscap envelope, and should be returned to the undersigned not later than 10th February, 1940.

Canvassing members of the Council is prohibited and will disqualify.

CHARLES E. CRANFIELD, Town Clerk.

Public Assistance Offices, Union-road, Leytonstone, E.11,
January, 1940.

Bolingbroke Hospital, Wandsworth Common, S.W.11.

Required CASUALTY OFFICER (Male, unmarried). The appointment is for six months commencing on March 1st.

Salary £120 per annum, with board, residence, and laundry.

Candidates must be fully qualified and registered.

Applications, stating age, qualifications, and experience, with copies of not more than three testimonials, should be sent to the undersigned on or before February 12th.

W. S. RANDOLPH BISS, Secretary-Superintendent.

Metropolitan Borough of Wandsworth.

APPOINTMENT OF TEMPORARY ASSISTANT MEDICAL OFFICER OF HEALTH AND ASSISTANT TUBERCULOSIS OFFICER.

Applications are invited for the appointment of TEMPORARY ASSISTANT MEDICAL OFFICER OF HEALTH and ASSISTANT TUBERCULOSIS OFFICER (Male) at a salary of £600 per annum, together with an allowance on a mileage basis for use of own car. Candidates must be registered Medical Practitioners, not less than twenty-five nor more than fifty years of age, must have had not less than eighteen months' clinical experience of which not less than six months must have been spent in a hospital as resident officer in charge of beds occupied by general or surgical cases, and must have had special training for not less than six months in the diagnosis and treatment of tuberculosis. Practical experience in the work of a Tuberculosis Dispensary is essential, and practical experience in Bacteriology will be an advantage.

Forms of application, further particulars and conditions of the appointment may be obtained from me. Applications for the appointment must be received by me not later than 12th February, 1940. All communications must be addressed to "The Town Clerk, Municipal Buildings, Wandsworth, S.W.18," the envelope being marked "Assistant Medical Officer of Health."

By Order,
R. H. JERMAN, Town Clerk.

Municipal Buildings, Wandsworth, S.W.18,
30th January, 1940.

Birmingham United Hospital,

THE GENERAL HOSPITAL, THE QUEEN'S HOSPITAL, THE QUEEN ELIZABETH HOSPITAL (MEDICAL TEACHING HOSPITAL).

Applications are invited from recently qualified candidates for the following posts at the Queen Elizabeth Hospital: HOUSE SURGEON to the GYNÆCOLOGICAL DEPARTMENT, HOUSE SURGEON to the EAR, NOSE, AND THROAT DEPARTMENT, and RESIDENT ANÆSTHETIST. Salary in each case at the rate of £70 per annum, with full residential emoluments.

Applications should be sent to the undersigned at once.

G. HURFORD (House Governor).

The Queen Elizabeth Hospital, Birmingham, 15,
January 30th, 1940.

Dewsbury and District General

INFIRMARY, DEWSBURY. (100 Beds.)

Applications are invited for the post of SECOND HOUSE SURGEON (Male) shortly vacant. Salary £150 per annum, with emoluments. The duties are principally those of a House Physician and Casualty Officer.

The Infirmary is a modern Voluntary Hospital and has the usual Special Departments, with Visiting Consulting Specialists in attendance.

Applications from candidates who have recently qualified will have special consideration, in accordance with the policy approved by the B.M.A.

Applications, stating age and hospital experience, together with copies of recent testimonials, to be addressed to my office without delay.

FRED SMITH, Secretary-Superintendent.

City of Manchester.

BOOTH HALL HOSPITAL FOR CHILDREN.
(760 Beds.)

The Public Health Committee invites applications from registered Medical Men for the post of RESIDENT ASSISTANT MEDICAL OFFICER (duties of House Surgeon) at the above-named hospital.

The salary for the appointment is £200 per annum, with board, residence, and laundry in addition subject to the Manchester Corporation conditions of service.

The appointment will be made in the first instance for a period of six months, renewable for a further six months, but not renewable thereafter.

Full information and forms of application may be obtained from the Medical Officer of Health, Hospitals Administration, Box 399, Town Hall, Manchester, 2, and applications for the post must be received by him not later than 12th February, 1940.

R. H. ADCOCK, Town Clerk.

Town Hall, Manchester, 2, 29th January, 1940.

Royal Hampshire County Hospital,

WINCHESTER.

(239 Beds—5 Resident Officers.)
Hospital recognised by the Royal College of Physicians, England.

HOUSE PHYSICIAN.

Applications are invited from fully qualified Men for the above post. Six months' appointment. Salary £100 per annum, with board, residence, and laundry.

Candidates, who must be of British nationality, should make application to the undersigned by February 14th, enclosing copies of three testimonials.

H. EWART MITCHELL, Superintendent and Secretary.

The Robert Jones and Agnes Hunt

ORTHOPÆDIC HOSPITAL, OSWESTRY.
(Beds: Adults 280; Children 120.)

Applications are invited for the post of RESIDENT SURGICAL OFFICER (Male, unmarried).

The appointment is for a period of one year, but may be renewed annually for a period not exceeding three years.

Commencing salary £350 per annum, rising by annual increments of £50 to £450 per annum, with board, residence, and laundry.

Candidates must be registered Medical Practitioners and have had previous Orthopædic experience: it is essential that they should possess a higher surgical qualification.

Applications, together with copies of three recent testimonials, stating age, qualifications, and experience, and the date the applicant is able to commence duty, should be received not later than 20th February, 1940.

JOHN C. MENZIES, Secretary-Superintendent.

Administrative County of Essex.

ESSEX COUNTY HOSPITAL, BROOMFIELD.

The County Council of the Administrative County of Essex invite applications from registered Medical Practitioners not over forty-five years of age, but a candidate's period of service in the Great War will be deducted, for the undermentioned appointments at the above Hospital, which will shortly be opened by the Council. The Hospital will provide accommodation for approximately 300 patients suffering from pulmonary and non-pulmonary tuberculosis.

The Hospital will possess all modern facilities for diagnosis and treatment and will have a staff of visiting specialists.

SENIOR ASSISTANT MEDICAL OFFICER. Candidates must have held resident appointments in a general hospital and also in a Sanatorium or special hospital for tuberculosis. The salary will be at the rate of £550 per annum and will rise, subject to satisfactory service, by annual increments of £25 to £700 per annum, together with unfurnished house, rates and tax free, water, electric light up to 430 units per annum, laundry, coal and gas, such emoluments being valued at £150 per annum.

THIRD ASSISTANT MEDICAL OFFICER. This appointment will be limited to a period of four years. The salary will be at the rate of £350 per annum and will rise, subject to satisfactory service, by annual increments of £25 to £425 per annum, together with residential emoluments valued at £160 per annum. Applicants must have held a resident appointment in a general hospital and should have had experience in a sanatorium or in a special hospital for tuberculosis.

The appointments will be subject to the Sick Pay Rules and Regulations of the Council, a copy of which will be forwarded on application, and the successful applicants will be required to pass a medical examination and to contribute to the appropriate superannuation fund.

Applications on the prescribed forms obtainable from the undersigned, accompanied by copies of not more than three recent testimonials (which will not be returned), should be marked "Appointment of Medical Officers, Broomfield," addressed to me and delivered at the County Hall, Chelmsford, not later than 10 A.M. on Monday, the 19th February, 1940.

E. S. HOLCROFT, Clerk of the County Council.

County Hall, Chelmsford, 29th January, 1940.

New Sussex Hospital for Women,

Windlesham-road, BRIGHTON.

Applications are invited from fully qualified Medical Women for the post of HOUSE SURGEON for six months. Duties to commence on 1st March. Salary at the rate of £100 per annum.

Applications, with copies of three recent testimonials, to be sent to the Secretary at the Hospital, on or before the 17th February.

January 30th, 1940.

Royal Berkshire Hospital, Reading

Applications are invited for the post of RESIDENT MEDICAL OFFICER (Male) at the BLAGRAVE BRANCH HOSPITAL and ASSISTANT to the Pathologist (combined appointment), to reside at and have charge of 64 Beds at the Branch Hospital, and to work as Assistant in the Pathological Department of the main Hospital (previous experience in Pathology not essential).

The appointment is for six months and candidates must have qualified within the last six months and be registered.

Remuneration at the rate of £150 per annum, with board, residence, and laundry.

Applications, stating age and experience, with copies of testimonials, to be sent to the undersigned as soon as possible.

H. E. RYAN, Secretary and House Governor.

Birmingham and Midland Hospital

FOR WOMEN.

HOUSE SURGEON (Man or Woman) wanted for six months from 1st April, 1940. Salary to be at the rate of £100 per annum.

Applications, with full particulars and copies of testimonials, to be sent not later than 24th February to HUGH C. ASTON, 45, Newhall-street, Birmingham, 3.

County Borough of Oldham.

MUNICIPAL HOSPITAL.

RESIDENT ASSISTANT MEDICAL OFFICER.

Applications are invited from registered Medical Practitioners for the post of Resident Assistant Medical Officer. Applicants must not be over forty-five years of age. Experience of anæsthetics is desirable.

Salary £200 per annum, with board, residence, and laundry.

Candidates should be unmarried.

The appointment will, in the first instance, be for a period of six months. The successful applicant, however, will be eligible for reappointment for a further period of six months.

The person appointed will be required to pass a medical examination, and to contribute to the Superannuation Fund of the Corporation.

The Hospital comprises 375 beds, with facilities for gaining experience in medicine, surgery, midwifery, and the diseases of children.

Canvassing or submitting testimonials from members of the Council or of any Committee appointed by the Council will be a disqualification.

Application forms and conditions of appointment may be obtained from the Medical Officer of Health, Town Hall, Oldham, and should be returned endorsed "Resident Assistant Medical Officer," not later than 9 A.M. on the 12th February, 1940.

THOMAS ALKER, Town Clerk.

Town Hall, Oldham, 23rd January, 1940.

The Hospital for Sick Children,

Great North-road, NEWCASTLE UPON TYNE, 2.

Applications are invited for the following appointments:—

(a) One HOUSE PHYSICIAN.
(b) Two HOUSE SURGEONS.

Male or Female, for six months as from 1st March, 1940.

Salary at the rate of £100 per annum, together with board, residence, and laundry.

Applications, stating age and qualifications, together with copies of testimonials, to be sent to—

J. B. CAIRNCROSS, C.A.,
House Governor and Secretary.

January, 1940.

Barbados General Hospital.

(275 Beds.)

Wanted, a duly qualified whole-time RADIOLOGIST, who shall be a registered Medical Practitioner, with Hospital experience of X Ray Therapy.

Salary £800 per annum, without quarters or private practice.

The appointment, which is pensionable and renewable, is for three years, subject to three months' notice on either side to terminate the engagement.

Twenty-eight days' leave a year on full pay.

First-class passage by sea direct to Barbados will be paid by the Hospital Board, and, in the event of the successful applicant being married, the Board will assist with the passages of this Officer and his family to the extent of a sum not exceeding £100. In case of service for less than three years a proportionate part of the passage money is to be refunded except he shall have relinquished his engagement on a medical certificate of ill health due to service.

The work required of the Radiologist is to take charge of the existing diagnostic X Ray equipment and to open an electrical Therapy Unit.

Applicant must state age, place and date of graduation, professional qualifications, and all particulars of previous experience in X Ray Therapy, and must forward a recent photograph and professional and personal testimonials. A medical certificate of physical fitness at the time of application is essential.

Canadian graduates must hold qualifications registrable in England.

Candidates holding a United States degree must be registered in the State of New York.

Applications, to be forwarded by Air Mail, will be received up to 31st March, 1940, and should be addressed to the Medical Superintendent, General Hospital, Barbados, B.W.I., from whom further particulars may be obtained.

By order,
W. GOODMAN, Secretary.

City of Portsmouth.

SAINT MARY'S HOSPITAL. (1050 Beds.)

Applications are invited for the appointment of a JUNIOR ASSISTANT RESIDENT MEDICAL OFFICER.

Applicants must be single Gentlemen, duly qualified and registered, not exceeding thirty years, and must have had at least one year's experience of hospital work. Experience in anæsthetics will be an additional qualification. The appointment is limited to a term of one year and the salary will be £250 per annum, with residential emoluments valued at £125 per annum.

Application forms may be obtained from and must be returned to the Acting Medical Officer of Health, The Guildhall, Portsmouth, not later than Wednesday, 14th February, 1940.

Canvassing will be a disqualification.

F. J. SPARKS, Town Clerk.

The Guildhall, Portsmouth, January, 1940.

City of Birmingham.

MATERNITY AND CHILD WELFARE DEPARTMENT.

The Public Health Committee invite applications from qualified Medical Women to act as MEDICAL OFFICER in the above Department to take up duties on March 28th.

The duties include attendance at maternity and child welfare centres and practical obstetrics.

Applicants should have had a six months' resident appointment in a children's hospital and in a maternity hospital. The D.P.H. will be considered an additional qualification.

The salary scale is £500, rising by £25 annually to £700 per annum; the commencing salary within that scale depends on the medical officer's obstetrical experience. A car allowance is made. It will be necessary to reside in close proximity to one of the City Maternity Homes.

The appointment will be subject to membership of the Birmingham Corporation Superannuation Scheme, and to the candidate passing a medical examination, and will be subject to three months' notice on either side.

Applications endorsed "Medical Officer for Maternity and Child Welfare," and accompanied by copies of three recent testimonials, to be made on a form obtainable from the Medical Officer of Health, Council House, Birmingham, 3, and returned to him on or before February 17th, 1940.

Manchester Royal Eye Hospital.

JUNIOR HOUSE SURGEON required. Salary £120 per annum, with residence, board, &c.

Applications (with copies of testimonials), endorsed "House Surgeon," to be addressed to the undermentioned.

H. R. NORTH, General Superintendent and Secretary.

City of Plymouth.

CITY GENERAL HOSPITAL.

APPOINTMENT OF DEPUTY MEDICAL SUPERINTENDENT.
(Temporary.)

Applications are invited from fully qualified Medical Practitioners for the temporary post (probably for the duration of the war) of Deputy Medical Superintendent, City Hospital, Plymouth.

The appointed candidate will work under the direction of the Medical Superintendent. The duties are mainly medical and candidates should have had post-graduate medical experience. Preference will be given to candidates possessing a higher medical qualification.

Salary at the rate of £450 per annum, rising by annual increments of £50 to £550, with full residential emoluments.

The appointment will be held during the pleasure of the Council and will be subject—

(1) to candidates passing a medical examination;
(2) to six weeks' notice on either side.

The Officer will be required to refund to the Council all fees, allowances, and emoluments, other than the foregoing, received by him.

Further particulars of the office may be obtained from the Medical Superintendent, the City Hospital, Plymouth.

Forms of application may be obtained from the undersigned, to whom they should be returned, accompanied by copies of not more than three recent testimonials, not later than Friday, 9th February, 1940.

T. PEIRSON, Medical Officer of Health.

UNIVERSITY OF BRISTOL

The University invites applications from qualified Medical Practitioners for appointment as REGISTRAR to the Cancer Research Committee. Salary at the rate of £400 per annum.

Further particulars may be obtained from the undersigned, to whom applications should be sent not later than February 10th, 1940.

WINIFRED SHAPLAND,
Secretary and Registrar.

Wolverhampton and Midland Counties

EYE INFIRMARY.

HOUSE SURGEON wanted. Ophthalmic experience preferred. Duties to commence towards the end of February, 1940. There are 70 beds for in-patients and large out-patient department. Salary £150 a year, with furnished apartments, board, and laundry.

Ladies and gentlemen applying should state age and experience, and send copies of three recent testimonials to reach the Secretary not later than first post 6th February.

The Eye Infirmary is recognised as a Hospital at which a full course of instruction for admission to the D.O.M.S. may be taken.

EUSTACE LEES, Secretary.

15th January, 1940.

Derbyshire County Council.

WALTON SANATORIUM, Near CHESTERFIELD.

JUNIOR RESIDENT ASSISTANT MEDICAL OFFICER.

Applications are invited for the post of Junior Resident Assistant Medical Officer at the Derbyshire County Sanatorium. Candidates with previous institutional experience of tuberculosis will be preferred, and practical experience of artificial pneumothorax work will be considered an additional qualification. Candidates must be single.

Salary at the rate of £350 per annum, rising by annual increments of £25 to £450 per annum, together with board, lodging, &c.

The successful candidate will devote the whole of his time to the duties of the office.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and the person appointed will be required to pass a medical examination.

Application forms may be obtained from the undersigned, to whom they must be returned, together with copies of not more than three recent testimonials, on or before February 16th, 1940.

W. M. ASH, County Medical Officer.

New County Offices, Derby, January 25th, 1940.

Lancashire County Council.

JUNIOR ASSISTANT MEDICAL OFFICER,
HIGH CARLEY SANATORIUM, Near ULVERSTON.

Applications are invited for the post of Junior Assistant Medical Officer (Male or Female, unmarried) for the High Carley Sanatorium, near Ulverston, which contains 130 Beds for adult cases of pulmonary tuberculosis, and 21 Beds in the Oubas House Children's Sanatorium, near Ulverston, for pulmonary cases. Salary £300 per annum, together with board, residence, and laundry.

The appointment will be for a period of twelve months.

The medical staff consists of medical superintendent and one assistant. Mr. Morriston Davies acts as Senior Visiting Consulting Chest Surgeon. There are excellent facilities for reading for M.D.

Forms of application and conditions of appointment obtainable from Central Tuberculosis Officer, County Offices, Preston. Letters to be marked "High Carley M.O."

Closing date 12th February, 1940.

GEORGE ETHERTON, Clerk of the County Council.

County Offices, Preston, 25th January, 1940.

Tilbury Hospital, Essex.—The

Committee of Management of the Seamen's Hospital Society invite applications for the appointment of HONORARY DENTAL SURGEON. The elected officer will be appointed for twelve months and will be eligible for re-election. Candidates should be doubly qualified and registered and hold a Diploma in Dental Surgery.

Applications, with copies of testimonials, to be sent to the undersigned, from whom further particulars can be obtained.

By Order.

F. A. LYON, Secretary,
Seamen's Hospital Society, Greenwich, S.E.10.

24th January, 1940.

The Duchess of York Hospital for

BABIES, MANCHESTER, 19.
(80 Beds.)

Applications are invited for the post of JUNIOR RESIDENT MEDICAL OFFICER.

Appointment for six months from the 1st April, 1940. Salary at the rate of £75 per annum, with laundry.

Applications, together with copies of testimonials, to be sent to the Secretary by the 24th February, 1940.

LOUISE GILLESPIE, Secretary.

Staffordshire County Council.

ASSISTANT MEDICAL OFFICER FOR MATERNITY AND CHILD WELFARE.

Applications are invited from fully qualified Medical Women for the post of Whole-time Assistant Medical Officer for Maternity and Child Welfare.

Candidates should have had at least three years' experience in the practice of their profession and special experience of practical midwifery and antenatal work subsequent to qualification. It is desirable that applicants should hold the Diploma of Public Health.

The salary will be at the rate of £600 per annum, rising by annual increments of £50 to £800 per annum. The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and the statutory contributions to the Superannuation Fund under that Act will be deducted from the salary.

The successful candidate will be required to undergo a medical examination and produce a birth certificate. The appointment will be subject to three calendar months' notice on either side.

Forms of application may be obtained from the undersigned and should be returned by first post on the 15th February, 1940, together with copies of not more than three testimonials.

Candidates receiving no reply by the 29th February, 1940, may assume the vacancy filled.

H. L. UNDERWOOD, Clerk of the County Council.

County Buildings, Stafford, 25th January, 1940.

Borough of Ilford.

APPOINTMENT OF ASSISTANT DENTAL SURGEON.

Applications are invited from registered Dental Surgeons of either sex holding a Degree or Diploma in Dental Surgery for the above whole-time appointment at a commencing salary of £450 per annum, rising by annual increments of £25 to a maximum of £500 per annum.

The duties of the officer appointed will be mainly connected with the dental inspection of school-children, but he or she will be required also to assist when necessary with the other dental services of the Council.

The appointment is subject to the provisions of the Local Government Superannuation Acts and to formal agreement, and the selected applicant will be required to pass a medical examination to the satisfaction of the Medical Officer of Health. The appointment will also be subject to three months' notice on either side.

Forms of application, together with the conditions of appointment and list of duties, may be obtained from the undersigned.

Applications on the prescribed form, together with copies of two recent testimonials, must be received by me in an envelope endorsed "Assistant Dental Surgeon" at the Town Hall, Ilford, not later than the 12th February, 1940.

Canvassing directly or indirectly will be a disqualification.

CHARLES N. ROBERTS, Town Clerk.

Town Hall, Ilford, 26th January, 1940.

Worthing Hospital.

Applications are invited for the post of HOUSE PHYSICIAN from Practitioners within six months of registration. The appointment is for six months. Salary at the rate of £130 per annum, with board, lodging, and laundry.

Candidates (Male) should forward applications, stating age, nationality, qualifications, and experience, accompanied by testimonials, to the undersigned not later than February 9th, 1940.

A. V. OAKTON, Secretary-Superintendent.

Royal Sheffield Infirmary and Hospital.

THE ROYAL INFIRMARY, SHEFFIELD.
(476 Beds.)

Applications are invited for the post of HOUSE PHYSICIAN. Salary at the rate of £80 per annum, with board and residence; £100 per annum after six months' service. The appointment is tenable for the residue of the period of six months ending 30th April, 1940.

Applications, with copies of recent testimonials, giving full qualifications, &c., to be forwarded to the undersigned forthwith.

H. KINGSLEY PEARCE,
General Superintendent and Secretary.

27th January, 1940.

Aberdeen Royal Infirmary.

The Board of Directors invite applications for the appointment of MEDICAL REGISTRAR, to take up duty on or about 1st April, 1940. The post is a resident one and the salary is at the rate of £200 per annum.

Applications, accompanied by six copies of recent testimonials, should be lodged on or before 19th February, 1940, with the undersigned, from whom particulars of the duties and terms of appointment may be obtained.

JOHN A. MCCONACHIE, Clerk and Treasurer.

1, Albyn-place, Aberdeen.

County Borough of Grimsby

SCARTHO ROAD INFIRMARY.

Applications are invited for the post of RESIDENT MEDICAL OFFICER (Male or Female) (unmarried). There are 247 Beds. Candidates must be fully qualified and registered, and have had hospital experience. Salary at the rate of £350 per annum, rising by annual increments of £25 to £450 per annum, plus board, residence, and laundry.

The appointment will be subject to one month's notice on either side and to the provisions of the Local Government Superannuation Act, 1937. The successful candidate will be required to pass a medical examination.

Forms of application and further particulars may be obtained from the Medical Officer of Health, St. James House, Bargate, Grimsby. Applications, endorsed "Resident Medical Officer" and accompanied by copies of three recent testimonials, should be sent to the Public Assistance Officer, Silver-street, Grimsby, not later than the 14th February, 1940.

L. W. HEELER, Town Clerk.

Municipal Offices, Grimsby.

Altrincham General Hospital.

(100 Beds.)

Applications are invited for the post of JUNIOR HOUSE SURGEON—salary at the rate of £120 per annum, with board, &c.—to commence duty on or about 1st March, 1940 (six months' appointment).

Applications, stating age, nationality, qualifications, &c., to be addressed to the undersigned not later than 10th February, 1940.

E. A. BIDEN, Secretary.

County Borough of Blackburn.

PUBLIC ASSISTANCE DEPARTMENT.

RESIDENT JUNIOR ASSISTANT MEDICAL OFFICER.

Applications are invited from Medical Practitioners (Male) for the appointment of a Resident Junior Assistant Medical Officer at QUEEN'S PARK HOSPITAL AND INSTITUTION.

The Staff consists of a Resident Medical Officer, a Resident Assistant Medical Officer, a Consulting Surgeon, a Laboratory Assistant, and an X-ray Attendant.

There is a separate Infirmary, a separate Mental Block, and a separate Hospital for children, and there is opportunity for experience in all departments, including Medical, Surgical, and Midwifery cases. An X-ray apparatus is installed.

The person appointed will be required to devote his whole time to the duties and also to act as may be directed by the Resident Medical Officer.

The appointment will be limited to a term not exceeding one year.

Salary at the rate of £200 per annum, together with board, apartments, and attendance.

Applications, stating age, qualifications, and experience, accompanied by copies of not more than three recent testimonials, must be sent to the Public Assistance Officer, Public Assistance Offices, Cardwell-place, Blackburn.

CHAS. S. ROBINSON, Town Clerk.

Town Hall, Blackburn, 22nd January, 1940.

King George's Sanatorium for Sailors,

LIPHOOK, HANTS (Seamen's Hospital Society), for Treatment of Pulmonary and Non-Pulmonary Tuberculosis. —ASSISTANT MEDICAL OFFICER, single, Male, required as from the 1st March, 1940, for six months. Salary at the rate of £200 per annum in the first instance.

Applications, with copies of not less than three testimonials, to be sent in to the undersigned.

F. A. LYON, Secretary,
Seamen's Hospital Society, Greenwich, S.E.10.

Greenwich, 22nd January, 1940.

The Southampton Children's Hospital

AND DISPENSARY FOR WOMEN.

The Board of Management invite applications for the post of RESIDENT MEDICAL OFFICER (Lady). Salary at the rate of £150 per annum, with board, residence, and laundry.

Applications, stating age, and accompanied by copies of testimonials, to be sent to the undersigned not later than 15th February, 1940. The selected candidate will be required to take up her duties on 1st March, 1940. The appointment is for six months.

ELLA K. MATTHEWS, Secretary.

Staffordshire, Wolverhampton and

DUDLEY JOINT BOARD FOR TUBERCULOSIS.

ASSISTANT TUBERCULOSIS OFFICER.

The Joint Board invite applications for the post of Assistant Tuberculosis Officer for the Central Dispensary Area, which includes Groundslow Sanatorium for Women (80 Beds), at a commencing salary of £600 per annum, rising by annual increments of £50 to £800 per annum, together with travelling expenses.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and the statutory contributions to the Superannuation Fund under that Act will be deducted from the salary.

The successful candidate will be required to undergo medical examination and produce a birth certificate.

The appointment will be held subject to three calendar months' notice on either side, and the following conditions:—

The candidates should either have held a previous appointment as Tuberculosis Officer with the approval of the Ministry of Health, or should, since qualification—

(1) Have had at least three years' experience in the practice of their profession;
(2) Have spent in general clinical work a period of not less than eighteen months, of which not less than six months have been spent in a hospital as resident officer in charge of beds occupied by general medical or surgical cases; and
(3) Have received special training for a period of not less than six months in the diagnosis and treatment of tuberculosis.

The successful applicant will be required to work under the administrative control of the Medical Officer of the Joint Board and will be subject to the directions of the Tuberculosis Officer of the Central Area. He will reside in his Dispensary Area or such other Centre as required by the Joint Board.

Forms of application can be obtained from the undersigned and must be returned duly completed not later than first post on the 15th February, 1940.

Applicants receiving no reply by the 29th February, 1940, may assume the vacancy has been filled.

H. L. UNDERWOOD, Clerk of the Joint Board.

County Buildings, Stafford, 29th January, 1940.

Taunton and Somerset Hospital,

TAUNTON.

A HOUSE SURGEON (Male) required at the end of February for six months. Another House Surgeon and a House Physician also in residence. Salary at the rate of £125 per annum, with board, residence, and laundry, and the retention of certain fees.

Applications, with copies of not more than three recent testimonials, to F. J. J. STACEY, Secretary.

County Borough of Croydon.

WARLINGHAM PARK HOSPITAL
(FOR NERVOUS AND MENTAL DISORDERS),
WARLINGHAM, SURREY.

LOCUM TENENS MEDICAL OFFICER required. Opportunity is afforded for gaining experience in all forms of mental disorders, including insulin, cardiazol, and electrically induced convulsions, recreational and occupational forms of treatment. Such experience would prove useful to a man who is studying for the D.P.M. Salary £7 7s. per week, together with the usual emoluments.

Apply immediately to the Medical Superintendent as above.

Burton-on-Trent General Infirmary.

Applications are invited for the following appointments, viz.:—

HONORARY SURGEON to the EAR, NOSE, AND THROAT DEPARTMENT.

HONORARY PATHOLOGIST.

Applications, giving full particulars of qualifications and experience, to be forwarded to the undersigned not later than February 14th, 1940.

E. W. THORNLEY, Superintendent and Secretary.

The General Infirmary, Burton-on-Trent.

District Infirmary, Ashton-under-

LYNE. (200 Beds, mainly Surgical.)

Applications for the following vacancies are invited, viz.:—

RESIDENT SURGICAL OFFICER (Male), to take up duties about the 12th February, 1940.

Salary at the rate of £200, with the usual residential emoluments.

HOUSE SURGEON, to take up duties immediately.

Salary at the rate of £150, with emoluments.

The appointments are for six months, with possibility of renewal. Candidates must be fully qualified and duly registered.

Applications, with copies of testimonials, should be sent at once to the undersigned.

FRANK OLIVER, General Superintendent and Secretary.

29th January, 1940.

The Royal Hospital, Wolverhampton.

(Incorporated under Charter.)

HOUSE SURGEON (FRACTURE AND ORTHOPÆDIC DEPT.) required. Salary £100 per annum. Duties to commence forthwith.

The Hospital contains 300 beds, includes the usual special departments, and is recognised by the various Examining Bodies for a part of the requisite attendance on Medical and Surgical Practice.

Candidates must be registered under the Medical Acts and unmarried.

The appointment is for six months. Board, furnished room, and laundry provided. Applications, with copies of testimonials, to be forwarded to the undersigned.

W. H. HARPER, House Governor.

Wolverhampton, 22nd January, 1940.

City of Portsmouth.

RESIDENT MEDICAL OFFICER AT THE INFECTIOUS DISEASES HOSPITAL (291 Beds) AND ASSISTANT MEDICAL OFFICER OF HEALTH.

Applications are invited from unmarried Medical Practitioners (Male) who have had experience of infectious diseases, and possess the Diploma in Public Health, for the above appointment. Salary £500–£700, rising by annual increments of £25, inclusive of residential emoluments which are valued at £125.

The gentleman appointed will be required to devote his whole time to the office, which will also include duties in connexion with the work of the Public Health Department as assigned to him by the Medical Officer of Health.

The position is designated as an established post and the total salary will be subject to the statutory deductions. The successful candidate will be required to pass a medical examination.

Application forms may be obtained from and must be returned to the Acting Medical Officer of Health, the Guildhall, Portsmouth, not later than Friday, 16th February, 1940.

Canvassing will be a disqualification.

F. J. SPARKS, Town Clerk.

The Guildhall, Portsmouth, 30th January, 1940.

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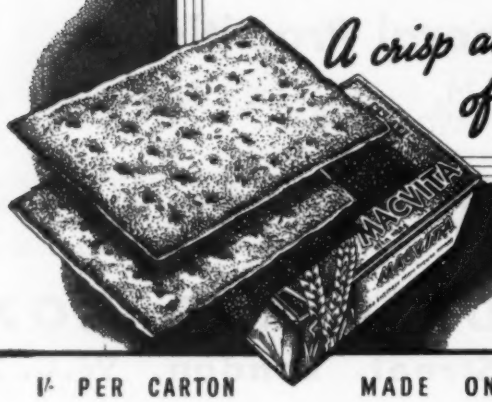

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In the CUP 0.5%

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INDICATIONS.

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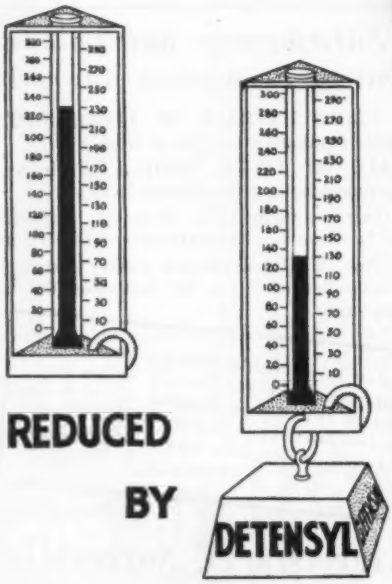

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Animal experiments on similar conditions, using wheat germ or wheat germ oil have shown that for cure two factors are needed, both of which are present in wheat germ and whole wheat germ oil.

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> "*It is important to realise that the anti-sterility factor—i.e., α-tocopherol [Vitamin E]—is probably not identical with the myotrophic and neurotrophic factors* (*Goettsch and Ritzmann*, 1939), *though they all occur together in wheat germ oil. I therefore treated the following cases with fresh dried whole-wheat germ*, ½ oz. twice daily, one for as long as eighteen months. The results support my belief that the muscular dystrophies and, most probably, amyotrophic lateral sclerosis are deficiency diseases and are curable.*"

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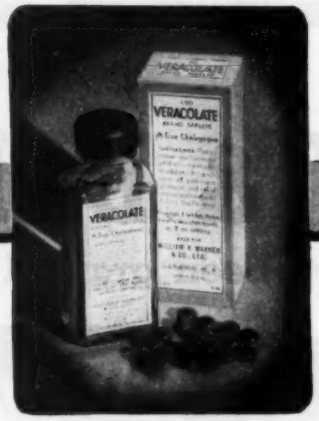

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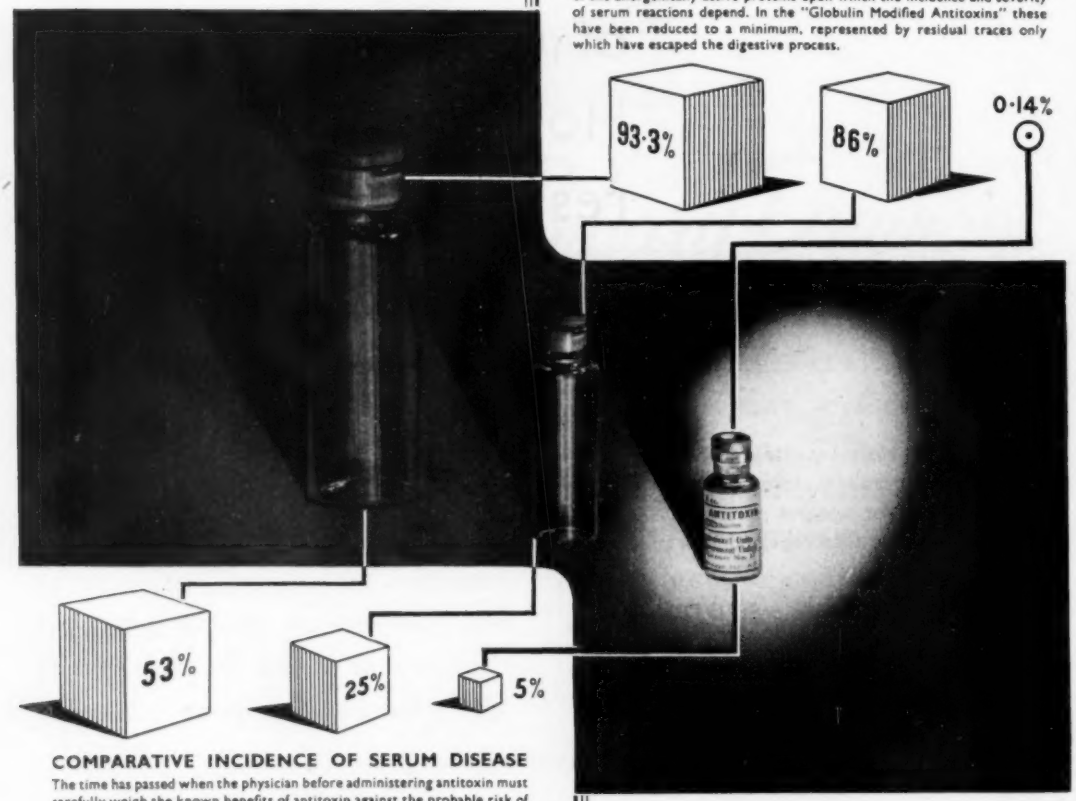
The important development in antitoxin refinement, as represented by the "Globulin Modified Antitoxins" has been the radical and systematic removal of the allergenically-active proteins upon which the incidence and severity of serum reactions depend. In the "Globulin Modified Antitoxins" these have been reduced to a minimum, represented by residual traces only which have escaped the digestive process.



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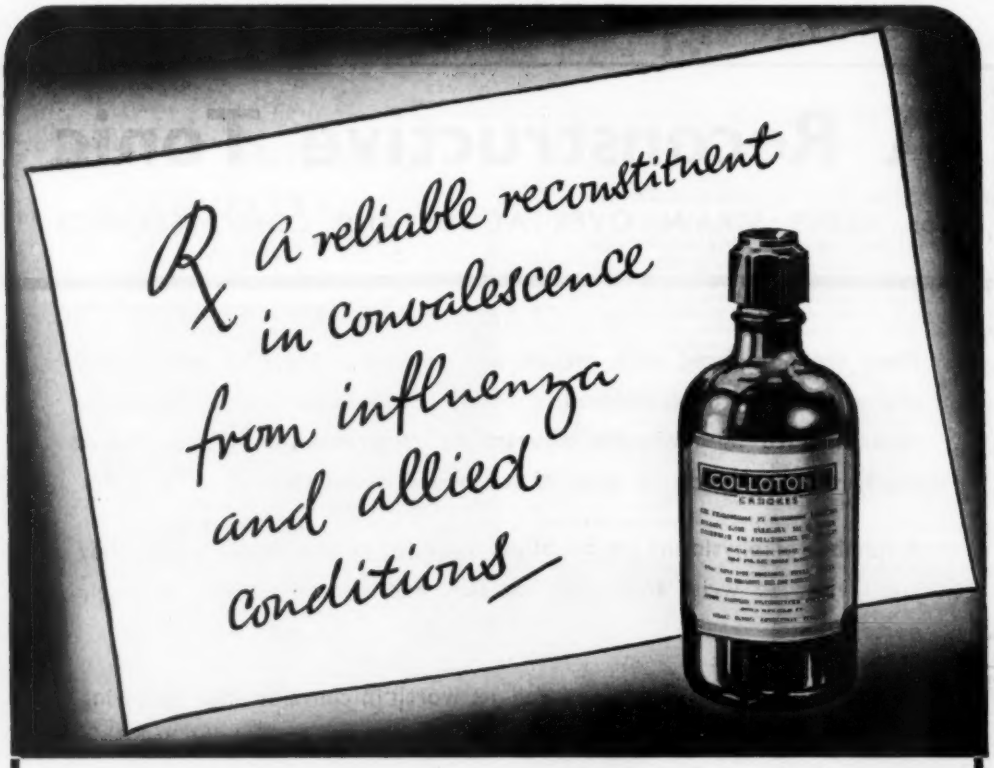

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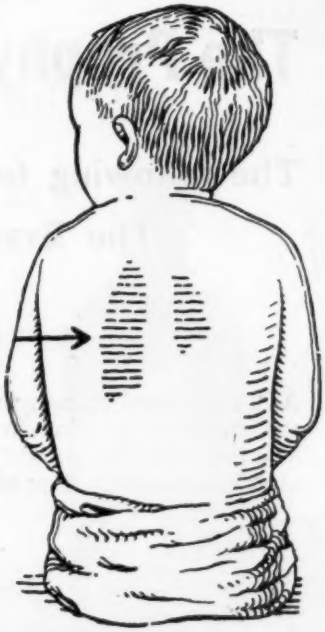

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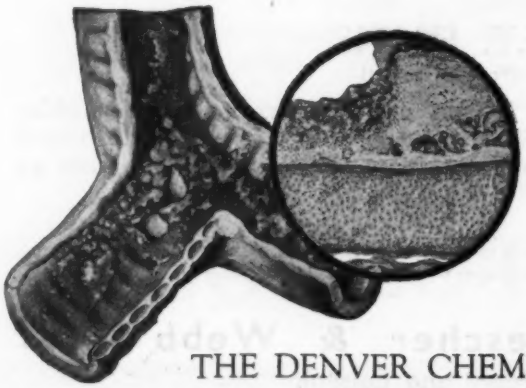

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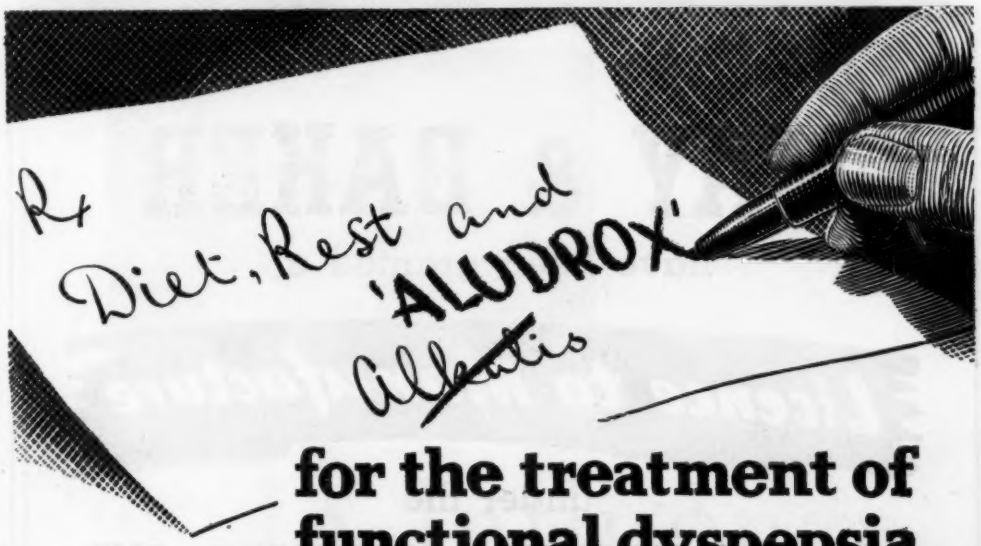

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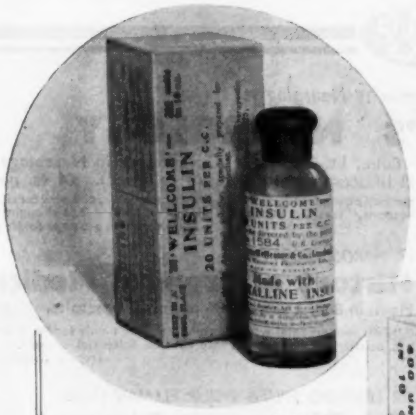

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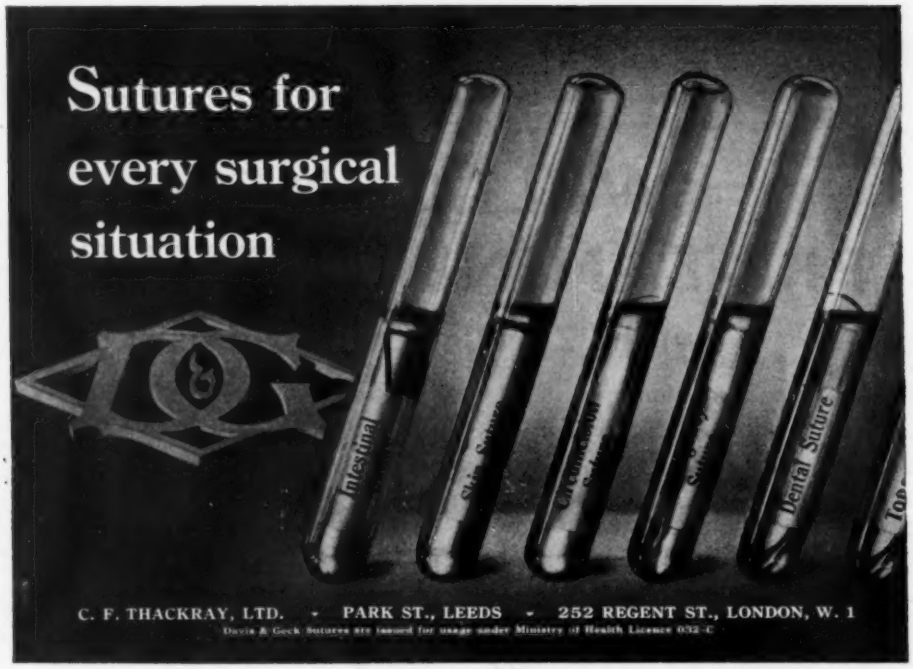

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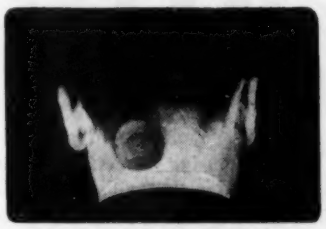

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Fig. 1 (Bed Sore).
Cleansing surrounding area before treatment.

Fig. 2 (Bed Sore).
'Elastoplast' applied.

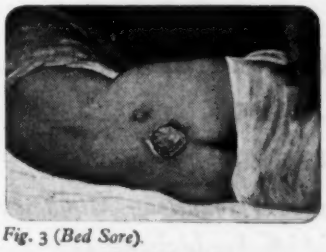

Fig. 3 (Bed Sore).
After eight weeks.

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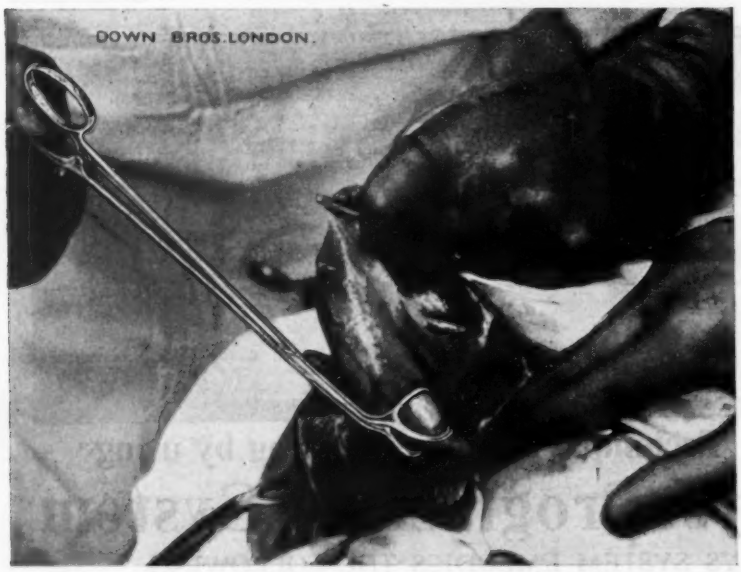
[*See also pp.* 10 & 30]



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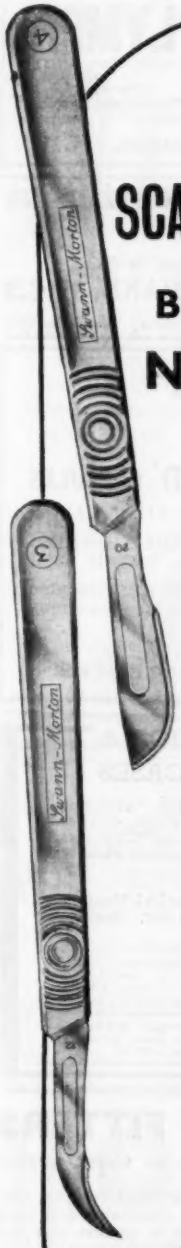

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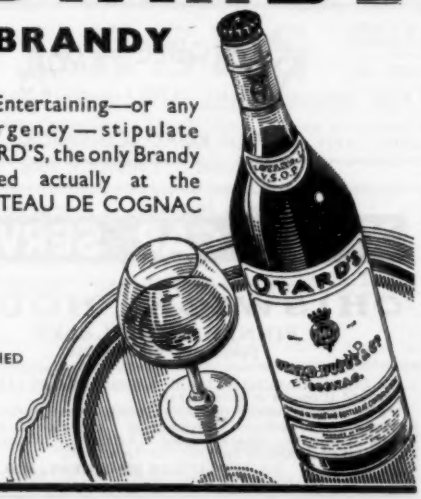

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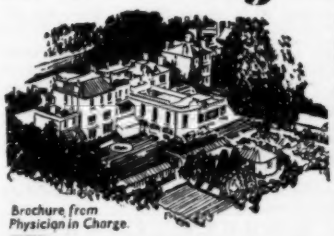
A PRIVATE MENTAL HOME situated in 14 acres of well-wooded grounds. For Ladies and Gentlemen suffering from Nervous or Mental Illness. Voluntary Patients, Temporary Patients, and Patients under Certificates are admitted for Treatment. Fees: from 4 guineas a week upwards, according to requirements. A few vacancies exist for Ladies and Gentlemen at reduced fees on the recommendation of the Patient's own Physician.

Apply to Dr. J. A. SMALL.

Telephone: 80 Norwich. Telegrams: Small, 80 Norwich.

Sunnyside



Brochure from Physician in Charge.

Delightfully situated at the foot of the South Downs (Safe Area). Specially caters for patients convalescent or requiring a restful holiday combined with facilities for treatment by Massage, Foam and other baths, Electrical (including ultra-short wave diathermy) and other physical methods. Electric lift. Medical Practitioners cordially invited to visit

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TORQUAY

Under the control of the Corporation of Torquay

is adequately equipped for the administration of the various forms of Spa treatment approved by Medical Hydrologists.

Certificated Assistants with C.S.M.M.G. and Bio-Physical qualifications retained upon the Staff.

All sections of the Establishment are open as usual.

The majority of the treatments are only given upon the prescription of a qualified medical practitioner.

The climate of Torquay is equable and suitable for Winter treatment and residence. There is extensive accommodation from the luxury Hotel to the smaller Establishment and seasonal entertainment facilities continue as usual.

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27, The Marine Spa, TORQUAY

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Drug Habits, and Nervous Disorders

25 minutes from London, situated in charming grounds and country, is a "home from home" for those seeking rest and treatment under medical supervision. Fees from 6 guineas. Illustrated brochure on application to the matron.

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OLD HILL HOUSE

CHISLEHURST, KENT.

Telegraphic Address: "Relief, Old Catton." Telephone: 290 Norwich.

NERVOUS & MENTAL AFFECTIONS

Ladies only received

The Grove, Old Catton, Norwich.

A High-class Home for the Curative Treatment of Nervous Affections. Voluntary Boarders are also received without certificates.

For full particulars apply to the Misses McLINTOCK or to Dr. S. BARTON, 34, Surrey-street, Norwich. Visiting Physician.

THE ARCHER NERVE TRAINING COLONY

LANGLEY RISE, KING'S LANGLEY, HERTS.

Started 35 years ago by the late Mrs. William Archer for the special treatment of **FUNCTIONAL NERVOUS DISORDERS** by a system of Relaxation correlated with training in Nerve Control. Home life in separate houses in charming grounds; 20 miles from London; Chalets for resting. Eurhythmics, Voice Production, Occupational Therapy, etc. **RECEPTION AREA, OFFICIAL AIR-RAID SHELTERS INSTALLED.**

All applications to the Secretary, King's Langley. Telephone: King's Langley 7519. The "**FRANCES ARCHER**" Centre, 30, Dorset Square, N.W.1, is temporarily closed.

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An attractive and comfortable PRIVATE HOME. Beautifully situated in its own grounds, 400 feet above sea level. Exceptionally healthy air and position affords every facility for convalescence. Foam Baths, Billiards, Squash Racquets, Lawn Tennis, Croquet, Bowls, Farm Produce, &c.

Treatment for Ladies and Gentlemen suffering from Insomnia, Functional Nervous Disorders, Alcohol and Drug Habits, Chronic Heart and Kidney Diseases, also Convalescing Cases.

Telephone: Essenden 212. *Apply,* J. C. BAKER, M.B.

STRETTON HOUSE,

Church Stretton, Shropshire.

ESTABLISHED IN 1853.

A PRIVATE HOME for the treatment of gentlemen suffering from Mental and Nervous illness, including the allied Disorders of Alcoholism and the Drug Habit. All types of early Mental and Nervous Cases are received without Certificates as Voluntary Patients under the provisions of the Mental Treatment Act, 1930. Bracing hill country. See "Medical Directory," p. 2358.—Apply to the Medical Superintendent. 'Phone 10 P.O., Church Stretton.

Agricultural Research Council.

VACANCY FOR A BACTERIOLOGIST.

Applications are invited for a post of Research Officer on the permanent Scientific Staff of the Council for bacteriological work on the typing of animal (including avian) and human tubercle bacilli and for research on tuberculosis, especially of farm livestock.

Candidates must be British subjects and be thoroughly experienced bacteriologists, possessing a medical or a veterinary qualification. The candidate selected will be attached for the present to the Institute of Animal Pathology, Cambridge.

Salary from £750 to £1000 per annum, according to qualifications and experience, with superannuation under Federated Superannuation System for Universities; permanence subject to probationary period not exceeding two years.

Further particulars and form of application may be obtained from the Secretary, Agricultural Research Council, 6A, Dean's-yard, Westminster, S.W.1.

Completed forms returnable by 31st March, 1940.

Candidates abroad may make written application, giving date of birth, full particulars of academic and subsequent career, references to published papers, and names of two referees.

Royal National Orthopædic Hospital,

234, Great Portland-street, W.1.

Applications are invited for the post of HOUSE SURGEON. Salary £200 per annum, with board, quarters, and laundry. Duties to commence March 1st.

The appointment is for six months, renewable for a further period on the recommendation of the Medical Board.

Applications, with copies of testimonials, should be addressed to the Secretary not later than February 12th.

The Royal Cancer Hospital (Free)

(Incorporated under Royal Charter),
Fulham-road, London, S.W.3.

Applications are invited for the post of HOUSE SURGEON to commence duties on the 1st April, 1940. Candidates must be unmarried. Salary at the rate of £100 per annum. The appointment is for six months and subject to rules, a copy of which can be obtained from the Secretary.

Applications, to be made on a form which will be supplied by the Secretary, with copies only of not more than three testimonials, to be sent to the Secretary not later than the first post Wednesday, 14th February, 1940.

CLEMENT COBBOLD, Secretary.

County Borough of Grimsby

SCARTHO ROAD INFIRMARY.

Applications are invited for the post of RESIDENT MEDICAL OFFICER (Male or Female) (unmarried). There are 247 Beds. Candidates must be fully qualified and registered, and have had hospital experience. Salary at the rate of £350 per annum, rising by annual increments of £25 to £450 per annum, plus board, residence, and laundry.

The appointment will be subject to one month's notice on either side and to the provisions of the Local Government Superannuation Act, 1937. The successful candidate will be required to pass a medical examination.

Forms of application and further particulars may be obtained from the Medical Officer of Health, St. James House, Bargate, Grimsby. Applications, endorsed "Resident Medical Officer" and accompanied by copies of three recent testimonials, should be sent to the Public Assistance Officer, Silver-street, Grimsby, not later than the 14th February, 1940.

L. W. HEELER, Town Clerk.

Municipal Offices, Grimsby.

Derbyshire County Council.

WALTON SANATORIUM, Near CHESTERFIELD.

JUNIOR RESIDENT ASSISTANT MEDICAL OFFICER.

Applications are invited for the post of Junior Resident Assistant Medical Officer at the Derbyshire County Sanatorium. Candidates with previous institutional experience of tuberculosis will be preferred, and practical experience of artificial pneumothorax work will be considered an additional qualification. Candidates must be single.

Salary at the rate of £350 per annum, rising by annual increments of £25 to £450 per annum, together with board, lodging, &c.

The successful candidate will devote the whole of his time to the duties of the office.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and the person appointed will be required to pass a medical examination.

Application forms may be obtained from the undersigned, to whom they must be returned, together with copies of not more than three recent testimonials, on or before February 16th, 1940.

W. M. ASH, County Medical Officer.

New County Offices, Derby, January 25th, 1940.

Manchester Royal Eye Hospital.

JUNIOR HOUSE SURGEON required. Salary £120 per annum, with residence, board, &c.

Applications (with copies of testimonials), endorsed "House Surgeon," to be addressed to the undermentioned.

H. R. NORTH, General Superintendent and Secretary.

Staffordshire County Council.

ASSISTANT MEDICAL OFFICER FOR MATERNITY AND CHILD WELFARE.

Applications are invited from fully qualified Medical Women for the post of Whole-time Assistant Medical Officer for Maternity and Child Welfare.

Candidates should have had at least three years' experience in the practice of their profession and special experience of practical midwifery and antenatal work subsequent to qualification It is desirable that applicants should hold the Diploma of Public Health.

The salary will be at the rate of £600 per annum, rising by annual increments of £50 to £800 per annum. The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and the statutory contributions to the Superannuation Fund under that Act will be deducted from the salary.

The successful candidate will be required to undergo a medical examination and produce a birth certificate. The appointment will be subject to three calendar months' notice on either side.

Forms of application may be obtained from the undersigned and should be returned by first post on the 15th February, 1940, together with copies of not more than three testimonials.

Candidates receiving no reply by the 29th February, 1940, may assume the vacancy filled.

H. L. UNDERWOOD, Clerk of the County Council.

County Buildings, Stafford, 25th January, 1940.

The Robert Jones and Agnes Hunt

ORTHOPÆDIC HOSPITAL, OSWESTRY.
(Beds: Adults 280; Children 120.)

Applications are invited for the post of RESIDENT SURGICAL OFFICER (Male, unmarried).

The appointment is for a period of one year, but may be renewed annually for a period not exceeding three years.

Commencing salary £350 per annum, rising by annual increments of £50 to £450 per annum, with board, residence, and laundry.

Candidates must be registered Medical Practitioners and have had previous Orthopædic experience: it is essential that they should possess a higher surgical qualification.

Applications, together with copies of three recent testimonials, stating age, qualifications, and experience, and the date the applicant is able to commence duty, should be received not later than 20th February, 1940.

JOHN C. MENZIES, Secretary-Superintendent.

Aberdeen Royal Infirmary.

The Board of Directors invite applications for the appointment of MEDICAL REGISTRAR, to take up duty on or about 1st April, 1940. The post is a resident one and the salary is at the rate of £200 per annum.

Applications, accompanied by six copies of recent testimonials, should be lodged on or before 19th February, 1940, with the undersigned, from whom particulars of the duties and terms of appointment may be obtained.

JOHN A. MCCONACHIE, Clerk and Treasurer.

1, Albyn-place, Aberdeen.

The Duchess of York Hospital for

BABIES, MANCHESTER, 19.
(80 Beds.)

Applications are invited for the post of JUNIOR RESIDENT MEDICAL OFFICER.

Appointment for six months from the 1st April, 1940. Salary at the rate of £75 per annum, with laundry.

Applications, together with copies of testimonials, to be sent to the Secretary by the 24th February, 1940.

LOUISE GILLESPIE, Secretary.

Staffordshire, Wolverhampton and

DUDLEY JOINT BOARD FOR TUBERCULOSIS.

ASSISTANT TUBERCULOSIS OFFICER.

The Joint Board invite applications for the post of Assistant Tuberculosis Officer for the Central Dispensary Area, which includes Groundslow Sanatorium for Women (80 Beds), at a commencing salary of £600 per annum, rising by annual increments of £50 to £800 per annum, together with travelling expenses.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and the statutory contributions to the Superannuation Fund under that Act will be deducted from the salary.

The successful candidate will be required to undergo medical examination and produce a birth certificate.

The appointment will be held subject to three calendar months' notice on either side, and the following conditions:—

The candidates should either have held a previous appointment as Tuberculosis Officer with the approval of the Ministry of Health, or should, since qualification—

(1) Have had at least three years' experience in the practice of their profession;
(2) Have spent in general clinical work a period of not less than eighteen months, of which not less than six months have been spent in a hospital as resident officer in charge of beds occupied by general medical or surgical cases; and
(3) Have received special training for a period of not less than six months in the diagnosis and treatment of tuberculosis.

The successful applicant will be required to work under the administrative control of the Medical Officer of the Joint Board and will be subject to the directions of the Tuberculosis Officer of the Central Area. He will reside in his Dispensary Area or such other Centre as required by the Joint Board.

Forms of application can be obtained from the undersigned and must be returned duly completed not later than first post on the 15th February, 1940.

Applicants receiving no reply by the 29th February, 1940, may assume the vacancy has been filled.

H. L. UNDERWOOD, Clerk of the Joint Board.

County Buildings, Stafford, 29th January, 1940.

Barbados General Hospital.

(275 Beds.)

Wanted, a duly qualified whole-time RADIOLOGIST, who shall be a registered Medical Practitioner, with Hospital experience of X Ray Therapy.

Salary £800 per annum, without quarters or private practice.

The appointment, which is pensionable and renewable, is for three years, subject to three months' notice on either side to terminate the engagement.

Twenty-eight days' leave a year on full pay.

First-class passage by sea direct to Barbados will be paid by the Hospital Board, and, in the event of the successful applicant being married, the Board will assist with the passages of this Officer and his family to the extent of a sum not exceeding £100. In case of service for less than three years a proportionate part of the passage money is to be refunded except he shall have relinquished his engagement on a medical certificate of ill health due to service.

The work required of the Radiologist is to take charge of the existing diagnostic X Ray equipment and to open an electrical Therapy Unit.

Applicant must state age, place and date of graduation, professional qualifications, and all particulars of previous experience in X Ray Therapy, and must forward a recent photograph and professional and personal testimonials. A medical certificate of physical fitness at the time of application is essential.

Canadian graduates must hold qualifications registrable in England.

Candidates holding a United States degree must be registered in the State of New York.

Applications, to be forwarded by Air Mail, will be received up to 31st March, 1940, and should be addressed to the Medical Superintendent, General Hospital, Barbados, B.W.I., from whom further particulars may be obtained.

By order,
W. GOODMAN, Secretary.

Administrative County of Essex.

ESSEX COUNTY HOSPITAL, BROOMFIELD.

The County Council of the Administrative County of Essex invite applications from registered Medical Practitioners not over forty-five years of age, but a candidate's period of service in the Great War will be deducted, for the undermentioned appointments at the above Hospital, which will shortly be opened by the Council. The Hospital will provide accommodation for approximately 300 patients suffering from pulmonary and non-pulmonary tuberculosis.

The Hospital will possess all modern facilities for diagnosis and treatment and will have a staff of visiting specialists.

SENIOR ASSISTANT MEDICAL OFFICER. Candidates must have held resident appointments in a general hospital and also in a Sanatorium or special hospital for tuberculosis. The salary will be at the rate of £550 per annum and will rise, subject to satisfactory service, by annual increments of £25 to £700 per annum, together with unfurnished house, rates and tax free, water, electric light up to 430 units per annum, laundry, coal and gas, such emoluments being valued at £150 per annum.

THIRD ASSISTANT MEDICAL OFFICER. This appointment will be limited to a period of four years. The salary will be at the rate of £350 per annum and will rise, subject to satisfactory service, by annual increments of £25 to £425 per annum, together with residential emoluments valued at £160 per annum. Applicants must have held a resident appointment in a general hospital and should have had experience in a sanatorium or in a special hospital for tuberculosis.

The appointments will be subject to the Sick Pay Rules and Regulations of the Council, a copy of which will be forwarded on application, and the successful applicants will be required to pass a medical examination and to contribute to the appropriate superannuation fund.

Applications on the prescribed forms obtainable from the undersigned, accompanied by copies of not more than three recent testimonials (which will not be returned), should be marked "Appointment of Medical Officers, Broomfield," addressed to me and delivered at the County Hall, Chelmsford, not later than 10 A.M. on Monday, the 19th February, 1940.

E. S. HOLCROFT, Clerk of the County Council.

County Hall, Chelmsford, 29th January, 1940.

City of Portsmouth.

RESIDENT MEDICAL OFFICER AT THE INFECTIOUS DISEASES HOSPITAL (291 Beds) AND ASSISTANT MEDICAL OFFICER OF HEALTH.

Applications are invited from unmarried Medical Practitioners (Male) who have had experience of infectious diseases, and possess the Diploma in Public Health, for the above appointment. Salary £500–£700, rising by annual increments of £25, inclusive of residential emoluments which are valued at £125.

The gentleman appointed will be required to devote his whole time to the office, which will also include duties in connexion with the work of the Public Health Department as assigned to him by the Medical Officer of Health.

The position is designated as an established post and the total salary will be subject to the statutory deductions. The successful candidate will be required to pass a medical examination.

Application forms may be obtained from and must be returned to the Acting Medical Officer of Health, the Guildhall, Portsmouth, not later than Friday, 16th February, 1940.

Canvassing will be a disqualification.

F. J. SPARKS, Town Clerk.

The Guildhall, Portsmouth, 30th January, 1940.

Birmingham United Hospital,

THE GENERAL HOSPITAL, THE QUEEN'S HOSPITAL, THE QUEEN ELIZABETH HOSPITAL (MEDICAL TEACHING HOSPITAL).

Applications are invited from recently qualified candidates for the following posts at the Queen Elizabeth Hospital: HOUSE SURGEON to the GYNÆCOLOGICAL DEPARTMENT, HOUSE SURGEON to the EAR, NOSE, AND THROAT DEPARTMENT, and RESIDENT ANÆSTHETIST. Salary in each case at the rate of £70 per annum, with full residential emoluments.

Applications should be sent to the undersigned at once.

G. HURFORD (House Governor).

The Queen Elizabeth Hospital, Birmingham, 15, January 30th, 1940.

Christie Hospital and Holt Radium

INSTITUTE, WITHINGTON, MANCHESTER, 20.

Applications are invited for the following posts at the above Hospital:—

SENIOR RESIDENT SURGICAL OFFICER.
JUNIOR RESIDENT SURGICAL OFFICER.

The appointments are for a six months' period but will be renewable. Previous resident appointments desirable.

Salary at the rate of £150 per annum, plus residence, board, and laundry. In the case of the senior post the salary will be increased to £200 per annum after six months' satisfactory service.

The present Junior Resident Surgical Officer is an applicant for the senior post.

Applications, with full details of previous experience, together with copies of three recent testimonials, should be sent to the undersigned not later than Saturday, February 17th, 1940.

PERCY N. GLASS, Superintendent and Secretary.

Telephone: HOLborn 1341

ASSOCIATED CLINICAL & ANALYTICAL LABORATORIES LTD.

Staple Inn Buildings (South),
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CHEMICAL ANALYSES
CLINICAL EXAMINATIONS

List of Fees, etc., on application to the Medical Superintendent.

Nottingham Children's Hospital.

Applications are invited for the post of RESIDENT HOUSE SURGEON (Woman). The salary will be at the rate of £150 per annum, with apartments, board, and laundry. The appointment will be for six months, duties to commence as early as possible after 28th February, 1940.

Applications, together with testimonials, stating age, qualifications, and experience, to be sent to the Honorary Secretary, 1, King John's-chambers, Bridlesmith Gate, Nottingham, on or before Tuesday, February 20th. Selected candidates will be required to attend at the Hospital for a personal interview.

Nottingham Children's Hospital.

Applications are invited for the post of RESIDENT HOUSE PHYSICIAN (Woman). The salary will be at the rate of £150 per annum, with apartments, board, and laundry. The appointment will be for six months, duties to commence on April 1st, 1940.

Applications, together with testimonials, stating age, qualifications, and experience, to be sent to the Honorary Secretary, 1, King John's-chambers, Bridlesmith Gate, Nottingham, on or before Tuesday, February 20th. Selected candidates will be required to attend at the Hospital for a personal interview.

County Borough of St. Helens.

ASSISTANT MEDICAL OFFICER FOR A.R.P.

Applications are invited for the appointment of Assistant Medical Officer of Health (Male) for Air Raid Precautions duties in St. Helens. The Officer appointed will be required to take full charge, under the Medical Officer of Health, of the Casualties Service of the Borough and should therefore have good organising ability. Experience in the Services or similar work or experience in the work of Voluntary First Aid Organisations is desirable but not essential. The Medical Officer appointed may also be required to carry out such other Public Health duties as the Medical Officer of Health may direct.

The appointment is at present temporary and would be subject to one month's notice on either side and is subject to the provisions of the Local Government Superannuation Act, 1937.

The salary will be at the rate of £600 per annum.

Forms of application may be obtained from the undersigned, to whom they should be returned, accompanied by copies of three recent testimonials, not later than 23rd February, 1940.

Canvassing members of the Council or Committees of the Corporation will be a disqualification.

FRANK HAUXWELL, Medical Officer of Health.

Town Hall, St. Helens, 2nd February, 1940.

The Prince of Wales's Hospital,

PLYMOUTH.

Applications are invited for the post of HOUSE SURGEON for duty at the LOCKYER STREET SECTION (50 Beds).

Salary £150 per annum, with board, residence, and laundry. Duties to commence 29th February.

Appointment is tenable for six months and is subject to renewal.

Applications, stating age and qualifications, with copies of three recent testimonials, to reach the undersigned by 15th February.

ARTHUR R. CASH, General Superintendent.

The Prince of Wales's Hospital,

Greenbank-road, PLYMOUTH.
(264 Beds.)
(Formerly South Devon and East Cornwall Hospital.)

There are vacancies at the above Hospital for the two following appointments—HOUSE PHYSICIAN, and RESIDENT ANÆSTHETIST AND HOUSE SURGEON to the SPECIAL DEPARTMENTS, and applications are invited for these posts.

Salary £120 per annum, with board, residence, and laundry.

Appointment is tenable for six months and is subject to renewal. Duties to commence 10th March.

The Hospital is officially recognised for the surgical practice required before admission to the Royal Fellowship Examination of the Royal College of Surgeons of England.

Applicants must be registered under the Medical Acts. Applications, stating age and qualifications, with copies of three recent testimonials, to reach the undersigned not later than 21st February.

ARTHUR R. CASH, General Superintendent.

5th February, 1940.

County Borough of Preston.

SHAROE GREEN HOSPITAL.
(250 Beds.)

JUNIOR ASSISTANT RESIDENT MEDICAL OFFICER
(Female).

Applications are invited from fully qualified and registered Practitioners for the above appointment. Salary at the rate of £100 per annum, with full board and residence. The appointment will be for a period of six months and can be renewed for a period not exceeding six months.

Applications, stating age, qualifications, and experience, together with copies of three recent testimonials, should reach the Medical Superintendent not later than first post on the 24th February, 1940.

The Royal Hospital, Wolverhampton.

(Incorporated under Royal Charter.)
(300 Beds.)

Applications are invited for the combined posts of RESIDENT ASSISTANT PATHOLOGIST AND RESIDENT MEDICAL OFFICER. Salary commencing at £200 per annum, rising by annual increments of £50 to £300. The holder of the combined posts will be expected to act also as Blood Transfusion Officer to the Hospital, this post carrying with it a further emolument of £25 per annum.

The Laboratory is recognised by the University of London for the purposes of the Diploma in Clinical Pathology.

Applications, with copies of testimonials, to be forwarded to the undersigned.

W. H. HARPER, House Governor.

Wolverhampton, 2nd February, 1940.

The Nottingham Hospital for Women.

HOUSE SURGEON (Male or Female) required to commence duties on 1st April, 1940. Appointment for period of not less than six months. Salary at the rate of £150 per annum, with board, residence and laundry. Previous hospital experience essential.

Applications, stating age, experience, and qualifications, accompanied by copies of three recent testimonials, to be sent forthwith to the Secretary, Mr. A. L. MORELL, Burton-buildings, Upper Parliament-street, Nottingham.

The Royal South Hants

AND SOUTHAMPTON HOSPITAL. (295 Beds.)

Applications are invited for the following Resident Medical appointments for six months only :—

One CASUALTY OFFICER.
One HOUSE SURGEON.
One HOUSE SURGEON TO EAR, NOSE AND THROAT DEPARTMENT.

Salaries at the rate of £150 per annum, with board, residence, and laundry. Candidates must be male and unmarried.

Applications, accompanied by not more than three testimonials, should be sent to the undersigned not later than Wednesday, 21st February, 1940.

E. L. WIRGMAN, House Governor and Secretary.

Leigh Infirmary, Lancs.

(86 Beds.)

Applications are invited for the post of JUNIOR HOUSE SURGEON (Male). Salary £150 per annum, with board, residence and laundry. The appointment is for six months, commencing 1st April, 1940, with eligibility for re-election. Candidates must be fully qualified and registered.

Applications, stating age and nationality, together with copies of recent testimonials, should be forwarded to the undersigned not later than Friday, 1st March, 1940.

B. R. CARTER, Secretary-Superintendent.

Preston Royal Infirmary.

MATERNITY SERVICES.

The Board of Management of the above Voluntary Hospital will be pleased to hear from Medical Practitioners, with suitable qualifications and experience of obstetrical work and ineligible for service with H.M. Forces, who would be willing to act as Temporary OBSTETRICAL OFFICER during the absence on military service of the permanent officer, in connection with the Joint Scheme of Maternity Services carried out by the above Voluntary Hospital, the Corporation of Preston, and the Lancashire County Council, full particulars of which will be forwarded on application to the undersigned, who will also supply any other desired information.

Remuneration will be paid according to qualifications and experience, but £800 per annum may be regarded as a minimum.

JOHN GIBSON, Superintendent and Secretary.

Royal Infirmary, Preston, 5th February, 1940.

Typewriting.—Specialists in Typing Medical and Scientific Papers, Theses, Books. Proof-reading, Indexing.—MARGARET WATSON, LTD., 25, Palace-chambers, Bridge-street, S.W.1. WHItehall 3838.

Applications are invited from Medical Women to fill a vacancy for HONORARY EDITOR of the Quarterly Review of the Medical Women's Federation. £50 grant per annum for expenses, exclusive of travelling.

Applications addressed to the Honorary Secretary, Medical Women's Federation, 73, Bourne Way, Hayes, Bromley, Kent, to be received before March 15th.

PRIMARY F.R.C.S.

For War-time Coaching in Anatomy (with demonstrations) and Biochemistry, apply Address, No. 686, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

Digestive Ailments.—Cases are received at Lady Margarets, Doddington, Kent, for dietary treatment from Two Guineas.—Apply Honorary Secretary.

Resident Patients.—Doctors desiring accommodation for private patients (mental, neurasthenic, invalid, &c.) may have, post free, illustrated BOOKLET describing residences, &c., of numerous colleagues in all parts—town, country, and seaside—who receive such patients.—Apply, Manager, British Medical Bureau, Tavistock House South, Tavistock-square, London, W.C.1.

Wanted.—Copies or Photographs of old prints on medical subjects, rare title pages of medical books, medical cartoons, &c., with permission for reproduction.—Write Address, No. 692, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

£25 Reward.—Stolen from car, 19th January, Chelsea, Four Bags (two black) containing McKesson Gas and Oxygen Apparatus, Anæsthetic Equipment in deal box, with brass handle and four drawers, and numerous other Medical Instruments, &c. The above reward, or pro rata, will be paid, on the usual conditions, by EDWARD C. LENDON & Co., 143, Cannon-street, E.C.4. (MAN. 9118.)

X Ray Diagnostic Set, Deep Therapy Set, Electro-Medical Apparatus, and sundry equipment for Sale. Owner serving with H.M. Forces overseas. Reasonable offer accepted.—Address, No. 688, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

BOVRIL MEDICAL AGENCY, Ltd.

ALDINE HOUSE,

10-13, BEDFORD STREET, STRAND, LONDON, W.C.2

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Chairman and Managing Director, F. M. THEW.

SCOTTISH BRANCH : 13, MELVILLE STREET, EDINBURGH, 3.

The Maximum Commission payable on the sale of any Practice or Partnership in Great Britain, placed exclusively in the hands of this Agency for disposal, is £50 (Fifty pounds), which sum covers goodwill, drugs, surgery fittings, fixtures and furniture, instruments and book debts, but not house property. Schedule of Terms and Vendor's Form will be forwarded on application.

Locum Tenens and Assistants supplied to Principals at short notice, without charge.

Full particulars of Practices and Partnerships for sale will be sent immediately to interested applicants on receipt of a note of their requirements.

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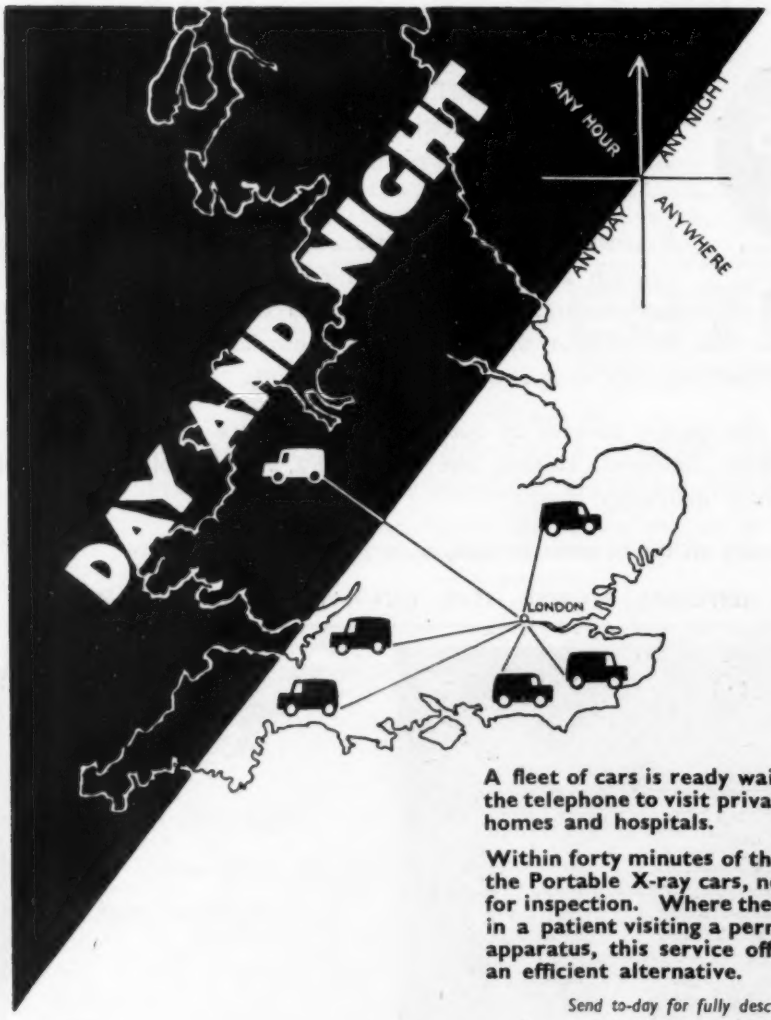

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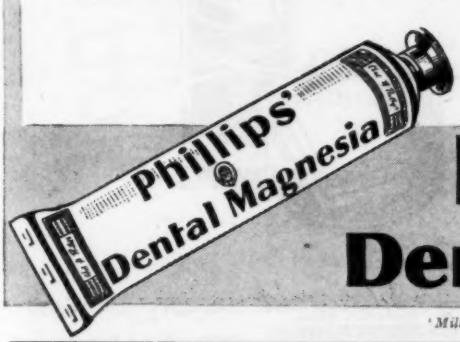

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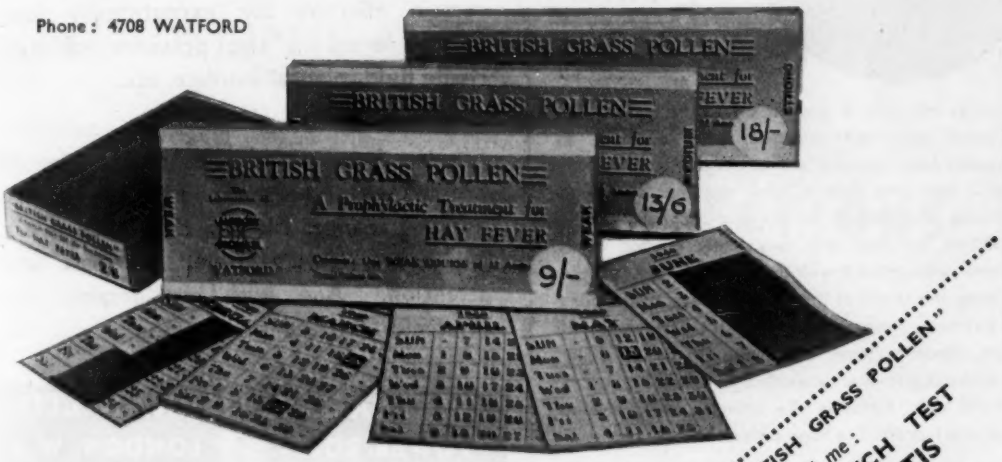

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(Lancet, 1939, ii, 1082)

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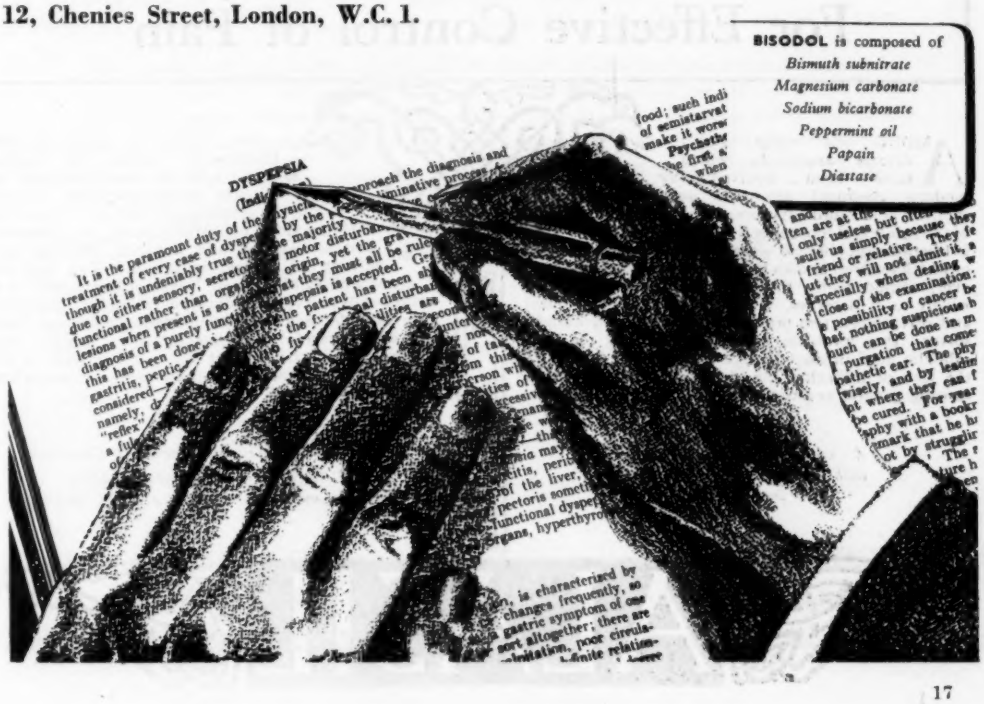

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J.A.M.A., 108 : 528, Feb. 13, 1937.

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Proc. Staff Meet. Mayo Clinic, 12 : 97, Feb. 17, 1937.

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Brit. Med. Jour., 1 : 1013, May 15, 1937.

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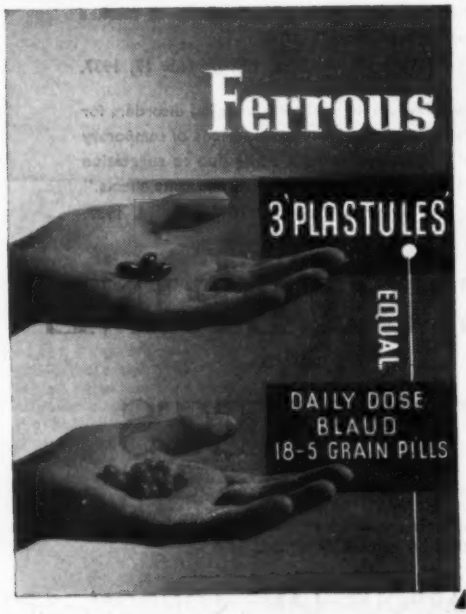

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Vide THE PRESCRIBER, Jan., 1938

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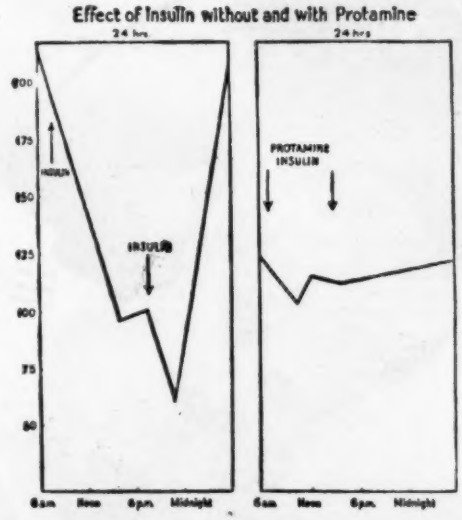

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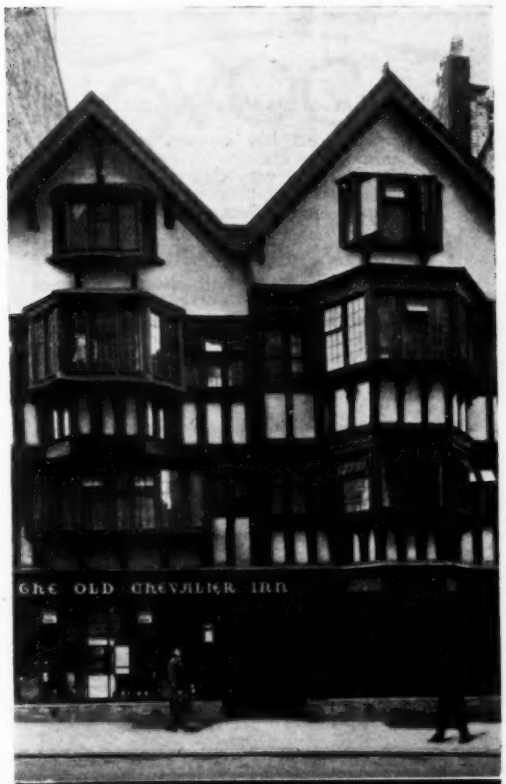

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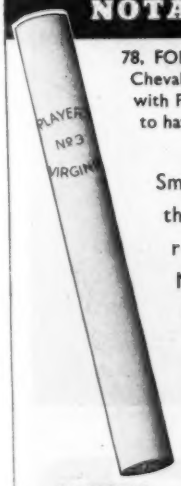

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TUESDAY, MARCH 12TH.
FIRST EXAMINATION
(Anatomy, Physiology, and Pharmacology),
MONDAY, MARCH 18TH.
FINAL EXAMINATION
(Pathology, Medicine, Surgery, and Midwifery),
WEDNESDAY, MARCH 27TH.

Candidates who have fulfilled the necessary conditions, and who desire to present themselves for Examination, must give notice in writing to the Secretary, Examination Hall, 8–11, Queen-square, London, W.C.1, at least twenty-one days before the date of the Examination, transmitting at the same time such certificates as may be required by the Regulations of the Board.

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Special classes will be held on three days a week—Mondays, Wednesdays and Fridays—but on other days members of the Course may attend teaching in the Out-patient Department in the mornings and demonstrations in the Clinical Theatre in the afternoons and all undergraduate lectures. Arrangements will be made for members of the Course to attend other hospitals in the neighbourhood with which the London Hospital is now associated. The Course will be strictly limited to 24 students, and applications should be made as soon as possible to the Dean, from whom further particulars may be obtained. The fee for the whole Course will be £21, for the Course without Operative Surgery £15 15s. and for Operative Surgery alone £7 7s. In the event of the Course being discontinued on account of the war, fees which must be paid in advance will be returned in proportion to the period of the course which is abandoned.

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Candidates are required to give twenty-one days' notice in writing to the Registrar of the College, to whom all certificates and testimonials required by the Bye-laws must be sent at the same time.

Candidates who propose to submit published work under the regulations now in force are required to give twenty-eight days' notice, and should apply in writing to the Registrar, without delay, for detailed instructions as to the procedure they should follow.

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all Cases, Male, Female, & Children
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Special Nurses for Nerve and Mental Cases.

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Superior trained Nurses for Medical, Surgical, Mental Dipsomania, Travelling and all cases. Nurses reside on the premises and are always ready for urgent calls Day and Night. Skilled Masseuses, Masseurs, and good Valet attendants supplied.
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SUPPLY STATE REGISTERED NURSES FOR ALL TYPES OF ILLNESS, INCLUDING MENTAL AND NERVE CASES, AT A MOMENT'S NOTICE—DAY OR NIGHT
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Permanent Staff of Resident Male Nurses
We supply fully-trained Male Nurses for all cases. Thoroughly experienced men with special training for mental work.

W. J. HICKS, *Secretary.*

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A PRIVATE MENTAL HOME situated in 14 acres of well-wooded grounds. For Ladies and Gentlemen suffering from Nervous or Mental Illness. Voluntary Patients, Temporary Patients, and Patients under Certificates are admitted for Treatment. Fees: from 4 guineas a week upwards, according to requirements. A few vacancies exist for Ladies and Gentlemen at reduced fees on the recommendation of the Patient's own Physician.
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A High-class Home for the Curative Treatment of Nervous Affections. Voluntary Boarders are also received without certificates.
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For Mental Cases with or without Certificates.
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A PRIVATE NURSING HOME for the Treatment of TUBERCULOSIS (both sexes). Standing in own grounds 200 feet above sea level. Sheltered from north and east. Outstanding sea and land views all rooms. Individual treatment, complete privacy. Revolving modern chalets. Electric light and fires and radio (earphones) all rooms and chalets. Fully qualified nursing staff. A "home from home." Resident proprietors.

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Separate Villa for patients suffering from the effects of alcoholism and drug addiction. Every facility for complete investigation and individual treatment on the most modern lines. Fully equipped gymnasium, golf course, and indoor swimming pool. Specially trained occupational and recreational therapists. Private rooms, suites, and special nurses available. As the hospital is well endowed terms are exceptionally moderate, e.g., First Department from 3 guineas per week, Second Department, 2 and 2½ guineas per week. Voluntary and certified patients are received. Medical Certificates given anywhere in the British Isles are valid for admission of patients. *For prospectus, necessary forms, and further information apply to:—*

Physician Superintendent, P. K. McCowan, J.P., M.D., F.R.C.P., D.P.M., Barrister-at-Law. Tel. Dumfries 1119.

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A Clinic for the diagnosis and treatment of Internal Diseases (except Mental or Infectious Diseases).

The Clinic is provided with a staff of doctors, technicians and nurses.

The surroundings are beautiful. The climate is mild. There is central heating throughout. The annual rainfall is 30·5 inches, that is, less than the average for England.

The inclusive weekly fees are from 15 guineas a week, according to the room occupied; rooms with bathroom are from 21 guineas. An examination and consultation fee of 15 guineas is charged on the first visit only.

SPECIAL FEE FOR INVESTIGATION ONLY—30 GUINEAS, including stay up to 10 days and report to doctor. For particulars, apply to

THE SECRETARY, Ruthin Castle, North Wales.

Telegrams: Castle, Ruthin. *Telephone:* Ruthin 66.

HOLLOWAY SANATORIUM VIRGINIA WATER

A Registered Hospital for the Treatment of MENTAL DISORDERS of the EDUCATED CLASSES. Founded by THOMAS HOLLOWAY in 1885.

This Institution is situated in a beautiful and healthy locality within easy reach of London. It is fitted with every comfort. Patients can have Private Bedrooms and Special Nurses as well as the use of General Sitting Rooms, at moderate rates of payment. Voluntary Patients can be admitted.

There is a Branch Establishment at CANFORD CLIFFS, BOURNEMOUTH, where Patients can be sent for a change and be provided with all the comforts of a well-appointed home.

For Terms, apply to—

The RESIDENT MEDICAL SUPERINTENDENT, St. Ann's Heath, Virginia Water, SURREY

ST. ANDREW'S HOSPITAL

FOR NERVOUS AND MENTAL DISORDERS,

NORTHAMPTON

FOR THE UPPER AND MIDDLE CLASSES ONLY.

PRESIDENT: THE MOST HON. THE MARQUESS OF EXETER, K.G., C.M.G., A.D.C.

MEDICAL SUPERINTENDENT: THOMAS TENNENT, M.D., M.R.C.P., D.P.H., D.P.M.

This Registered Hospital is situated in 130 acres of park and pleasure grounds. Voluntary patients, who are suffering from incipient mental disorders or who wish to prevent recurrent attacks of mental trouble; temporary patients, and certified patients of both sexes are received for treatment. Careful clinical, bio-chemical, bacteriological, and pathological examinations. Private rooms with special nurses, male or female, in the Hospital or in one of the numerous villas in the grounds of the various branches can be provided.

WANTAGE HOUSE

This is a Reception Hospital in detached grounds with a separate entrance, to which patients can be admitted. It is equipped with all the apparatus for the complete investigation and treatment of Mental and Nervous Disorders by the most modern methods; insulin treatment is available for suitable cases. It contains special departments for hydrotherapy by various methods, including Turkish and Russian baths, the prolonged immersion bath, Vichy Douche, Scotch Douche, Electrical baths, Plombieres treatment, etc. There is an Operating Theatre, a Dental Surgery, an X-Ray Room, an Ultra-violet Apparatus, and a Department for Diathermy and High-frequency treatment. It also contains Laboratories for bio-chemical, bacteriological, and pathological research. Psychotherapeutic treatment is employed when indicated.

MOULTON PARK

Two miles from the Main Hospital there are several branch establishments and villas situated in a park and farm of 650 acres Milk, meat, fruit, and vegetables are supplied to the Hospital from the farm, gardens, and orchards of Moulton Park. Occupational therapy is a feature of this branch, and patients are given every facility for occupying themselves in farming, gardening, and fruit growing.

BRYN-Y-NEUADD HALL

The seaside house of St. Andrew's Hospital is beautifully situated in a Park of 330 acres, at Llanfairfechan, amidst the finest scenery in North Wales. On the North-West side of the Estate a mile of sea coast forms the boundary. Patients may visit this branch for a short seaside change or for longer periods. The Hospital has its own private bathing house on the seashore. There is trout-fishing in the park.

At all the branches of the Hospital there are cricket grounds, football and hockey grounds, lawn tennis courts (grass and hard courts), croquet grounds, golf courses, and bowling greens. Ladies and gentlemen have their own gardens, and facilities are provided for handicrafts, such as carpentry, etc.

For terms and further particulars apply to the Medical Superintendent (TELEPHONE: No. 2356 and 2357 Northampton), who can be seen in London by appointment

PECKHAM HOUSE, 112, Peckham Road, London, S.E.15

Telegrams: "Alleviated, London." **Telephones: Rodney 2641 and 2642.**

The above House is for the care and treatment of persons suffering from mental diseases and nervous disorders. Certified voluntary and temporary patients are received. Separate houses for treatment and accommodation of special cases adjoin the institution. Occupational therapy, physical drill, and other forms of modern treatment. There is a seaside branch, Kearsney Court, near Dover, to which patients may be sent for treatment or on holiday. Motor drives are arranged when required. Tennis courts. Entertainments, dances, and indoor amusements held throughout the year. Terms from £3 3s. per week. Illustrated prospectus and further particulars can be obtained from the MEDICAL SUPERINTENDENT

CAMBERWELL HOUSE

Telegrams: "PSYCHOLIA, LONDON." 33, PECKHAM RD., LONDON, S.E.5. Telephone: Rodney 4242 (2 lines).

For the treatment of MENTAL DISORDERS.

Also completely detached Villas for Mild Cases, with private suites if desired. Voluntary Patients received. Twenty acres of Grounds. Hard and Grass Tennis Courts, Putting Greens, Bowls, Croquet, Squash Rackets, Recreation Hall with Badminton Court, and all indoor amusements, including Wireless and other Concerts, Occupational Therapy, Calisthenics, and Dancing Classes. X-ray and Actino-therapy, Prolonged Immersion Baths, Operating Theatre, Pathological Laboratory, Dental Surgery, and Ophthalmic Department. Chapel. **Shock and also modified Insulin Therapy.**

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The Convalescent Branch is Hove Villa, Brighton, and is 200 feet above sea level.

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First opened in 1898 and rebuilt in 1925 on the Cotswold Hills seven miles from Cheltenham, for the Treatment of Pulmonary and all other forms of Tuberculosis. Aspect S.S.W., sheltered from North and East, elevation 800 feet. Pure bracing air, SPECIAL TREATMENT by artificial PNEUMOTHORAX (X-ray controlled). TUBERCULINS, and ULTRA-VIOLET RAYS is available when necessary without extra charge. X-RAY plant, Fully Equipped Dental Department, Electric Light Radiators, hot and cold basins and Wireless in all rooms. Up-to-date drainage. Full day & night Nursing Staff. **Terms: 5 to 7½ Guineas a week inclusive.**

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HEATHERSIDE, CAMBERLEY, SURREY.

FOR THE TREATMENT OF PULMONARY TUBERCULOSIS

Well situated on high ground and surrounded by pines and heather.
All rooms are fitted with electric light, wash basins with hot and cold water, and radiators.
X ray plant. Day and night nursing staff.

RESIDENT MEDICAL SUPERINTENDENT: Dr. H. O. BLANFORD, to whom application for admission can be made.

HAYDOCK LODGE,

NEWTON-LE-WILLOWS, LANCASHIRE.

For the reception and treatment of PRIVATE PATIENTS of both sexes of the UPPER AND MIDDLE CLASSES suffering from Mental and Nervous Disorders, Alcoholism and Drug addiction, either voluntarily, temporarily, or under certificate. Patients are classified in separate buildings according to their mental condition. Situated in park and grounds of 400 acres. Self-supported by its own farm and gardens in which patients are encouraged to occupy themselves. Every facility for indoor and outdoor recreation. For terms, prospectus, etc., apply MEDICAL SUPERINTENDENT. *'Phone:* Ashton-in-Makerfield 7311. *Tele. Address:* Street, Ashton-in-Makerfield.

THE OLD MANOR SALISBURY

A Private Hospital for the Care and Treatment of those of both sexes suffering from MENTAL DISORDERS.

Extensive grounds. Detached Villas. Chapel. Garden and Dairy Produce from own farm. Terms very moderate.

CONVALESCENT HOME AT BOURNEMOUTH Detached Villas standing in 12 acres of ornamental grounds, with tennis courts, etc., which Voluntary, Temporary or Certified Patients may visit by arrangement for long or short period.

Illustrated Brochure on application to the Medical Superintendent. The Old Manor, Salisbury. Telephone: Salisbury 3216 and 3217.

VALE OF CLWYD SANATORIUM

This Sanatorium is established for the treatment of Tuberculosis of the Lungs and the Pleural Cavities. It is situated in the midst of a large area of park-land at a height of 450 feet above sea-level, on the South West slopes of mountains rising to over 1800 feet, which protect it from north and east winds and provide many miles of graduated walks with magnificent views. Average rainfall 29·57 per annum. Full day and night Nursing Staffs. X-Ray plant. Every facility for Artificial Pneumothorax and for operations on the chest. Electric Lighting. Central Heating. Home Farm. Grade A Milk from T.T. Herd.

For particulars apply to Medical Superintendent.

H. MORRISTON DAVIES, M.D., M.Ch. (Cantab.), F.R.C.S., Llanbedr Hall, Ruthin, N. Wales.

MUNDESLEY SANATORIUM

NORFOLK

Resident Physicians:

S. VERE PEARSON, M.D. (Cantab.), M.R.C.P. (Lond.).
E. C. WYNNE-EDWARDS, M.B. (Cantab.), F.R.C.S. (Edin.).
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is situated in a safety zone

Healthy children are received from 1 week to 8 years of age.
Fully trained NURSING and TEACHING Staff.
Beautiful grounds—very good health record.
Highly recommended by doctors and parents all over the world.
Excellent air-raid shelters and other precautions taken.
Nervous and delicate infants and children are also accepted and receive individual care and attention. The quiet situation of the College among fields and woods is especially suitable.

Further particulars on application

Director: Miss M. A. PAYNE, S.R.N., A.R.San.I.

Tel. No.: T. W. 595.

BROOKE HOUSE, CLAPTON

A PRIVATE HOME for the treatment of Nervous and Mental Disorders in both sexes. Situated in nine acres of Pleasure Grounds.

Voluntary, Temporary, and Certified Patients received.

For further particulars apply—

Dr. ERNEST ROLLINS, Resident Physician.

Tel.: Amherst 1642.

HOME for EPILEPTICS, MAGHULL

(Near Liverpool)

FARMING and OPEN AIR OCCUPATION for PATIENTS

A few vacancies in 1st and 2nd Class Houses.

FEES:
1st Class (men only) from £5 5s. p.w. upwards.
2nd Class (men and women) 32/- p.w.

For further particulars apply Secretary,

C. EDGAR GRISEWOOD, A.C.A., 20 Exchange St. East, Liverpool

PORTSMOUTH CITY MENTAL HOSPITAL

Accommodation is provided for the reception of PRIVATE PATIENTS of both sexes in three detached Villas, which are healthily and pleasantly situated in extensive grounds with sea views.

Charges from 3 guineas weekly, including all necessaries except clothing.—Apply to the Medical Superintendent and Resident Physician, THOMAS BEATON, O.B.E., M.D., F.R.C.P.

MALLING PLACE, KENT

For LADIES and GENTLEMEN of Unsound Mind.

Terms moderate. Apply to Resident Medical Superintendent. Telegrams: ADAM WEST MALLING. Telephone No. 2: MALLING.

CHEADLE ROYAL HOSPITAL, Cheadle, Cheshire.

This REGISTERED HOSPITAL, with a SEASIDE BRANCH at Colwyn Bay, N. Wales, is for the treatment and care of those of the Upper and Middle Classes suffering from MENTAL AND NERVOUS DISEASES.

The Hospital is governed by a COMMITTEE, appointed by the TRUSTEES of the Manchester Royal Infirmary.

In addition to the Main Buildings there are separate villas. Extensive grounds. Hard and grass tennis courts, cricket and croquet grounds, and a court for badminton. There are also wireless installations. Golf may be had within easy distance. Occupational Therapy.

VOLUNTARY, TEMPORARY, AND CERTIFIED PATIENTS received.

The Hospital is nine miles from Manchester, 50 minutes by rail from Liverpool, and 3½ hours from London.

For terms and further particulars apply to the Medical Superintendent, who may be seen in Manchester BY APPOINTMENT. *Telephone: Galley* 2231 (3 lines).

COURT HALL, KENTON, near EXETER

FOR THE TREATMENT OF EIGHT LADIES, VOLUNTARY, TEMPORARY AND CERTIFIED PATIENTS

CLIFFDEN, TEIGNMOUTH

FOR EARLY AND CONVALESCENT CASES — Recreational Therapies are held daily by skilled Leaders

The house stands high with spacious balconies and extensive views of the South Devon Coast. Beautiful garden. Own Dairy in 25 acres. Private road to beach. There is also a charming house, EBWORTHY, MANATON, DARTMOOR, situated in 20 acres, 1100 ft. up for bracing moorland air.

Resident Physicians—BERTHA M. MULES, M.D., B.S. ANNE S. MULES, M.R.C.S., L.R.C.P.

Telephones—STARCROSS 59 and TEIGNMOUTH 289

THE ROYAL EARLSWOOD INSTITUTION

FOR MENTAL DEFECTIVES, REDHILL, SURREY.

(Formerly the EARLSWOOD ASYLUM.) PATRON: H.M. THE KING.

FOR THOSE REQUIRING CONTROL with EXPERT SUPERVISION and needing SPECIAL TRAINING in useful occupations, *SCHOOLS, FARMING, and various TRADE WORKSHOPS.*

Inclusive fees from £110 p.a. *THOSE UNABLE TO PAY FULL FEES* admitted by votes of subscribers with part payment towards cost.

RECREATIONS: Outdoor games. MALE STAFF BAND for Concerts, Dancing, etc.

Apply: THE MEDICAL SUPERINTENDENT, Earlswood, Redhill, Surrey. *'Phone:* REDHILL 344.

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For many years Bournemouth has enjoyed the reputation of being one of the finest centres for convalescence in the British Isles.

In times like these, Bournemouth is pre-eminently suitable. The balmy, resinous air, long hours of sunshine and sheltered position provide the most favourable environment; while the social life and activities, for which Bournemouth is famous the whole year round, stimulate interest and create in the patient that will to recovery which is more than half the battle.

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Write for the "Book of Bournemouth" and any other information to the Publicity Manager, Room 15, Town Hall, Bournemouth.

PINE, VAPOUR, AND SWIMMING BATHS, ALL OF SEA WATER, ARE AVAILABLE AT THE PIER APPROACH BATHS DURING THE WINTER

Miller General Hospital,

Greenwich High-road, S.E.10.

Applications are invited for the posts of TWO HOUSE PHYSICIANS. Salary £100 per annum. Candidates (Male) must be unmarried. Board, residence and laundry are provided. The appointments are for six months from 1st April, 1940. There are five Resident Officers.

Application forms can be obtained from the Secretary, and must be returned not later than 26th February, 1940.

6th February, 1940.

Queen's Hospital for Children,

Hackney-road, E.2.

CASUALTY OFFICER required 1st March, 1940. Six months' appointment. Salary at rate of £100 per annum, with board, lodging and laundry. Candidates must have had some previous experience and be prepared to participate in the Emergency Hospital arrangements in connection with which beds have been reserved and in respect of which additional remuneration is payable.

Applications must be made on forms to be obtained from the undersigned and be sent in with copies of not more than three testimonials on or before 20th February, 1940.

CHARLES H. BESSELL, Secretary.

London County Council.

Applications invited from Medical Practitioners of at least one year's standing for undermentioned position. Candidates must have held a resident appointment in a general hospital for at least six months. Married quarters are not available. For duty in the first instance at NORTHERN HOSPITAL, WINCHMORE HILL, N.21.

TEMPORARY ASSISTANT MEDICAL OFFICER (CLASS I).—Salary £350–£25–£425, with board, lodging, and washing. Surgical duties.

Application forms obtainable (stamped addressed foolscap envelope necessary) from Medical Officer of Health, Staff Division 2, County Hall, S.E.1, returnable by 26th February.

Canvassing disqualifies.

Poplar Hospital, East India Dock-road, Poplar, E.14.

The Committee invites applications for the appointment of SECOND RESIDENT OFFICER (Male), at a salary at the rate of £175 per annum, all found. Candidates must have held appointments as House Surgeon at a hospital.

Applications must be accompanied by a statement of the candidate's qualifications and forwarded to the Secretary, with three recent testimonials, not later than Monday, February 26th, 1940. The appointment is for a period of six months.

Westminster Hospital,

St. John's Gardens, S.W.1.

Applications are invited for the office of "WANDER" SCHOLAR (Clinical Pathologist and Registrar to the Children's Department). Salary £250 per annum. Duties to commence 1st March, 1940. Candidates must be registered Medical Practitioners who have held a resident Hospital post and had some experience in pathology or in diseases of children. The office is a whole time one, is tenable for one year, subject to one month's notice on either side.

Applications (six copies), together with six copies of three recent testimonials, should be submitted to the undersigned (from whom further details regarding duties of the office can be obtained) not later than 24th February, 1940.

By Order of the House Committee.

CHARLES M. POWER Secretary.

UNIVERSITY EXAMINATION POSTAL INSTITUTION

Founded in 1882 by E. S. WEYMOUTH, M.A.

Postal or Oral Preparation for all Medical Examinations.

SOME SUCCESSES

M.D. (Lond.), 1901-39 (11 Gold Medallists 1913-39) ..	427
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D.P.H. (various), 1901-39 (completed exam.)	366
F.R.C.S. (Edin.), 1901-39	90
M.R.C.P. (Lond.), 1901-39	342
M.R.C.S., L.R.C.P., *Final*, 1901-39 (completed exam.)..	728

M.D. (various), by Thesis. Many Successes.

D.O.M.S., D.L.O., D.P.M., &c. Many Successes.

MEDICAL PROSPECTUS (47 pages),

sent gratis, along with List of Tutors, &c., on application to the Principal, 17, Red Lion-square, London, W.C.1. (Telephone: Holborn 6313.)

East Ham Memorial Hospital,

Shrewsbury-road, E.7.

Applications are invited for post of HOUSE SURGEON AND CASUALTY OFFICER (Male) for six months, commencing 1st March. Salary at the rate of £120 per annum, with board, residence, and laundry.

Applications, stating age, nationality, experience, and full particulars, together with copies of three recent testimonials, should reach the undersigned not later than 23rd February.

E. G. FENNER, Acting Secretary.

National Hospital, Queen Square,

W.C.1.

MEDICAL SCHOOL.

Demonstration of Neurological Cases will be given by Dr. F. M. R. WALSHE on Wednesdays at 3.30 P.M., beginning on the 21st of February. Graduates and senior medical students will be admitted on presentation of their cards.

No other teaching in the wards or out-patient departments of the Hospital is being given at present.

J. G. GREENFIELD, Dean.

East Ham Memorial Hospital,

Shrewsbury-road, E.7.

Applications are invited for the post of HOUSE PHYSICIAN (Male). The appointment is for six months commencing 1st April, 1940. Salary at the rate of £150 per annum, with board, residence, and laundry.

Applications, stating age, nationality, experience, and full particulars, together with copies of three testimonials, should reach the undersigned by 26th February, 1940.

E. G. FENNER, Acting Secretary.

Charing Cross Hospital,

W.C.2.

SURGICAL REGISTRAR.

The Council invite applications from candidates who must be registered Medical Practitioners (Male) for the post of Second Surgical Registrar. Honorarium £150 per annum.

A copy of the regulations can be obtained from the undersigned, to whom applications, together with copies of three testimonials, must be submitted not later than first post on Monday, February 26th, 1940.

GEO. J. JONES, Secretary.

Charing Cross Hospital, London, W.C.2.

King Edward Memorial Hospital,

Mattock-lane, Ealing, W.13.
(145 Beds.)

CASUALTY OFFICER AND HOUSE SURGEON (Male) required to undertake Casualty duties and act as House Surgeon for Ear, Nose, and Throat, Dental and Gynæcology. Six months' appointment from 1st March, 1940, with possibility of re-election for a further period.

Salary £150 per annum, with usual residential emoluments.

Applications, stating age, experience, and qualifications, together with copies of two recent testimonials, should be sent to the undersigned not later than 20th February, 1940.

(Signed) R. A. MECKELWRIGHT, House Governor.

Royal London Ophthalmic Hospital

(Moorfields Eye Hospital),
City-road, E.C.1.

Applications are invited for the post of
SENIOR RESIDENT OFFICER.

Candidates must be registered Medical Practitioners and must be prepared to begin duties on the 1st May, 1940.

Salary at the rate of £150 per annum, with board and residence in the Hospital. Additional income will accrue to this post, the care of private patients being included in the duties.

In the event of the First House Surgeon being appointed, other candidates are requested to state whether they would accept the office of First House Surgeon at the rate of £150 per annum, Second House Surgeon at the rate of £125 per annum, or Third House Surgeon at the rate of £100 per annum. The candidate elected as Third House Surgeon must be prepared to begin his duties with the present Officer on the 1st April, 1940, and will be non-resident until the 1st May, 1940.

The appointments are for a period of six months as from the 1st May, 1940.

Applications, with testimonials, stating age and qualifications, must be received not later than the 1st March, 1940, by

A. J. TARRANT, Secretary.

The Corbett Hospital,

STOURBRIDGE.
(100 Beds. Special Departments and Visiting Specialist Staff.)

Applications are invited for the post of RESIDENT SURGICAL OFFICER (Male), which will become vacant about the end of March.

The appointment is for a period of one year, but may be renewed annually for a period not exceeding three years. Candidates must possess the F.R.C.S. and be unmarried. Salary at the rate of £200 per annum, with board and laundry.

Applications, together with copies of recent testimonials, stating age, qualifications, and experience, to be sent to the undersigned forthwith.

W. G. H. WESTON, Secretary.

Royal Manchester Children's Hospital,

PENDLEBURY.

Applications are invited for the post of NON-RESIDENT ASSISTANT MEDICAL OFFICER at the Out-patient's Department, Gartside-street, Manchester. Salary is at the rate of £150 per annum, and the appointment is for a period of six months as from 12th March, 1940. Candidates must be on the Medical Register.

Particulars of duties can be obtained from the Secretary. The hours of duty are from 9 A.M. till 1 P.M., or until the work of the Dispensary is finished. Patients' attendances number about 100,000 per annum.

Applications, stating age, and accompanied by copies of not more than three testimonials, to be sent to the undersigned not later than Wednesday, 21st February, 1940.

By order.

H. HEARDMAN, Secretary.

Preston and County of Lancaster

QUEEN VICTORIA ROYAL INFIRMARY.

The Board of Management invite applications from unmarried gentlemen, properly qualified and registered, for the post of HOUSE SURGEON. Duties under Consultant Surgeon. Salary at the rate of £150 per annum, with board, residence, and laundry. Six months' engagement.

This post is recognised as approved experience in connexion with the Final Examination for the F.R.C.S. Diploma.

Applications, stating age and qualifications, accompanied by copy testimonials, to be forwarded to the undersigned as soon as possible.

JOHN GIBSON, Superintendent and Secretary.

Cumberland Infirmary.

(200 Beds.)

Applications are invited for the following posts:—

Two HOUSE SURGEONS (Male).

HOUSE SURGEON to SPECIAL DEPARTMENTS (Eye, Ear, Nose, and Throat).

Appointments are for six months from the 1st April, 1940, and holders will be eligible for a further term. Salary in each case at the rate of £160 per annum, with board, residence, and laundry.

The posts of House Surgeon are recognised by the Royal College of Surgeons of England under the regulations for the Final Fellowship Examination.

Applications, on forms obtainable from the undersigned, together with copies of not more than three testimonials, to be received not later than 29th February.

J. S. RIPPIER, Secretary-Superintendent.

Carlisle, 13th February, 1940.

King George Hospital, Ilford

(Near London).

HOUSE SURGEON (Male) required immediately for a period of six months. Salary at the rate of £200 per annum.

Forms of application may be obtained from the undersigned, to whom they should be returned duly completed as soon as possible.

(Signed) G. AUSTIN HEPWORTH, Secretary and Superintendent.

The Royal Cripples Hospital,
BIRMINGHAM.
(300 Beds for Acute Cases (including a proportion of patients suffering from Tubercular Bone Disease) and large Out-patient Department.)

Applications are invited for the post of RESIDENT HOUSE SURGEON (Male), vacant March 1st. Salary £200 per annum, plus car allowance. The appointment, which is for a period of six months, is renewable on the discretion of the Medical Board, and is terminable by one month's notice on either side.

Candidates must be unmarried, and preference will be given to those with previous experience in General and Orthopædic Hospitals.

Applications, with copies of three recent testimonials, to be sent on or before February 21st to the General Secretary, Royal Cripples Hospital, 80, Broad-street, Birmingham, 15.

Addenbrooke's Hospital, Cambridge.

Applications are invited for the post of RESIDENT ANÆSTHETIST AND EMERGENCY OFFICER (Male). The appointment will be for three months from April 1st, 1940. Salary at the rate of £130 per annum, with board, residence, and laundry.

Candidates, who must be unmarried and duly registered, are requested to forward their applications, stating age, qualifications, &c., together with copies of not more than four recent testimonials, to the undersigned on or before Wednesday, March 6th, 1940.

J. A. BEARDSALL, Secretary-Superintendent.

Lincoln County Hospital.

Wanted, JUNIOR HOUSE SURGEON (Male, unmarried). Salary at the rate of £150 per annum, rising to £200 per annum at the conclusion of six months' approved service. Board, residence, and washing will also be provided.

Every candidate for the appointment must be registered under the Medical Acts.

Applications, stating age and other particulars, with copies of not more than three testimonials, are to be sent to the undersigned, from whom further particulars may be obtained.

ARTHUR MOORE, Secretary-Superintendent.

Lincoln, 29th January, 1940.

Swansea General and Eye Hospital.
(336 Beds.)

Applications are invited for the undermentioned posts:—

(*a*) CASUALTY OFFICER. Salary £150 to £175 according to experience.

(*b*) RESIDENT ANÆSTHETIST. Salary £150.

Both appointments for six months and include as emoluments board, residence, and laundry.

Applications, stating age, experience, and qualifications, with copies of three recent testimonials, to be forwarded to the undersigned.

D. C. HOWELLS, Secretary-Superintendent.

The Children's Hospital, Sheffield
(INC.). (157 Beds.)

Applications are invited for the post of HOUSE PHYSICIAN vacant 1st March, 1940.

The appointment is for six months. Salary £100 per annum with board, residence, and laundry.

Candidates (unmarried) who must possess registered qualifications, should forward applications stating age, nationality, &c., together with copies of three recent testimonials, to the undersigned.

T. H. G. GARTLAND, Superintendent and Secretary.

City of Winchester.

APPOINTMENT OF MEDICAL OFFICER OF HEALTH.

The Council invite applications from duly registered Medical Practitioners for the post of Medical Officer of Health (including School Medical Officer, Medical Superintendent of the Council's Isolation Hospital and Police Surgeon).

The salary will be at the rate of £850 per annum, rising subject to satisfactory service at the end of two years by annual increments of £50 to £1000 per annum. In addition an allowance for travelling within the city of £50 per annum will be made. The gentleman appointed will be required to provide a car and to devote the whole of his time to the duties of the Office.

Applicants should not be more than forty years of age and should have had previous experience in Public Health under a local authority.

The appointment will be subject to sections 108 and 110 of the Local Government Act, 1933, the Sanitary Officers (Outside London) Regulations, 1935, and the Local Government Superannuation Act, 1937. The successful candidate will be required to pass a medical examination.

A statement of the principal duties and conditions of appointment may be obtained on application to the undersigned.

Applications, stating age, qualifications, and particulars of present and past appointments, together with copies of not more than three recent testimonials, should be delivered to the undersigned, endorsed "Medical Officer of Health," not later than the 8th March, 1940.

J. A. CROMPTON, Town Clerk.

The Guildhall, Winchester, 12th February, 1940.

Northampton General Hospital.
(381 Beds.)

There will be a vacancy on the 1st March next for a HOUSE SURGEON to the EAR, NOSE, AND THROAT DEPARTMENT.

The salary will be at the rate of £150 per annum, with board, residence, and laundry. Candidates, who must be duly qualified and registered, must be Males and of British nationality.

The successful candidate will be appointed for a period of seven months and will be eligible for re-election for a further period of six months.

Applications, stating age, qualifications, &c., with copies of three testimonials, must reach the undersigned not later than the first post on Wednesday, 21st February.

GORDON S. STURTRIDGE, M.B., Superintendent.

13th February, 1940.

Corporation of Barking.

RESIDENT MEDICAL OFFICER.

Applications are invited before the 29th February, 1940, from qualified Medical Practitioners for the designated appointment of Resident Medical Officer at the Council's Upney (Maternity) Hospital, comprising 24 Beds.

Previous medical appointments in a maternity hospital and experience in antenatal work are essential, and preference will be given to candidates holding or reading for membership of the College of Obstetrics and Gynæcology.

Salary £350–£25–£450, plus emoluments, valued at £150 per annum.

Particulars of duties and application forms may be obtained from the undersigned.

S. A. JEWERS, Town Clerk.

Town Hall, Barking, Essex.

Doncaster Royal Infirmary.
(185 Beds.)

Applications are invited for the post of HOUSE SURGEON to the EAR, NOSE, AND THROAT and OPHTHALMIC DEPARTMENTS and RESIDENT ANÆSTHETIST.

The appointment is for six months.

Salary at the rate of £150 per annum, with the usua emoluments.

Applications, accompanied by copies of three recent testimonials, should be forwarded to the undersigned immediately.

R. LANCASTER, Secretary-Superintendent.

The Royal Hospital, Wolverhampton.
(Incorporated under Royal Charter.)
(300 Beds.)

Applications are invited for the combined posts of RESIDENT ASSISTANT PATHOLOGIST AND RESIDENT MEDICAL OFFICER. Salary commencing at £200 per annum, rising by annual increments of £50 to £300. The holder of the combined posts will be expected to act also as Blood Transfusion Officer to the Hospital, this post carrying with it a further emolument of £25 per annum.

The Laboratory is recognised by the University of London for the purposes of the Diploma in Clinical Pathology.

Applications, with copies of testimonials, to be forwarded to the undersigned.

W. H. HARPER, House Governor.

Wolverhampton, 2nd February, 1940.

Staffordshire County Council.

TEMPORARY ASSISTANT MEDICAL OFFICER (Woman).

Applications are invited from Medical Women for the above, temporary post during the war. Preference will be given to those who have held residential Hospital appointments, and who have the Diploma of Public Health.

The person appointed will work under the direction of the County Medical Officer and the duties of the Officer will include School Medical and Maternity and Child Welfare work.

The salary will be at the rate of £600 per annum, rising by annual increments of £50 to £800 per annum.

The appointment will be subject to three calendar months' notice on either side.

Forms of application may be obtained from the undersigned and should be returned by first post on the 29th February, 1940, together with copies of not more than three testimonials.

H. L. UNDERWOOD, Clerk of the County Council.

County Buildings, Stafford, 12th February, 1940.

The Birmingham United Hospital.
THE GENERAL HOSPITAL.
THE QUEEN'S HOSPITAL.
THE QUEEN ELIZABETH HOSPITAL.

Applications are invited for the following Resident appointment:—

CASUALTY HOUSE SURGEON required immediately for three months. Salary at the rate of £70 per annum, plus board residence, and laundry.

Preference will be given to candidates within six months of registration.

Candidates, who must be fully qualified and registered, should send in their applications to the undersigned as soon as possible.

A. H. LEANEY, House Governor.

The General Hospital, Birmingham, 4.

County Borough of Preston.

SHAROE GREEN HOSPITAL.
(250 Beds.)

JUNIOR ASSISTANT RESIDENT MEDICAL OFFICER
(Female).

Applications are invited from fully qualified and registered Practitioners for the above appointment. Salary at the rate of £100 per annum, with full board and residence. The appointment will be for a period of six months and can be renewed for a period not exceeding six months.

Applications, stating age, qualifications, and experience, together with copies of three recent testimonials, should reach the Medical Superintendent not later than first post on the 24th February, 1940.

The Royal South Hants

AND SOUTHAMPTON HOSPITAL. (295 Beds.)

Applications are invited for the following Resident Medical appointments for six months only :—

One CASUALTY OFFICER.
One HOUSE SURGEON.
One HOUSE SURGEON TO EAR, NOSE AND THROAT DEPARTMENT.

Salaries at the rate of £150 per annum, with board, residence, and laundry. Candidates must be male and unmarried.

Applications, accompanied by not more than three testimonials, should be sent to the undersigned not later than Wednesday, 21st February, 1940.

E. L. WIRGMAN, House Governor and Secretary.

The Robert Jones and Agnes Hunt

ORTHOPÆDIC HOSPITAL, OSWESTRY.
(Beds: Adults 280; Children 120.)

Applications are invited for the post of RESIDENT SURGICAL OFFICER (Male, unmarried).

The appointment is for a period of one year, but may be renewed annually for a period not exceeding three years.

Commencing salary £350 per annum, rising by annual increments of £50 to £450 per annum, with board, residence, and laundry.

Candidates must be registered Medical Practitioners and have had previous Orthopædic experience: it is essential that they should possess a higher surgical qualification.

Applications, together with copies of three recent testimonials, stating age, qualifications, and experience, and the date the applicant is able to commence duty, should be received not later than 20th February, 1940.

JOHN C. MENZIES, Secretary-Superintendent.

Preston Royal Infirmary.

MATERNITY SERVICES.

The Board of Management of the above Voluntary Hospital will be pleased to hear from Medical Practitioners, with suitable qualifications and experience of obstetrical work and ineligible for service with H.M. Forces, who would be willing to act as Temporary OBSTETRICAL OFFICER during the absence on military service of the permanent officer, in connection with the Joint Scheme of Maternity Services carried out by the above Voluntary Hospital, the Corporation of Preston, and the Lancashire County Council, full particulars of which will be forwarded on application to the undersigned, who will also supply any other desired information.

Remuneration will be paid according to qualifications and experience, but £800 per annum may be regarded as a minimum.

JOHN GIBSON, Superintendent and Secretary.

Royal Infirmary, Preston, 5th February, 1940.

Leigh Infirmary, Lancs.

(86 Beds.)

Applications are invited for the post of JUNIOR HOUSE SURGEON (Male). Salary £150 per annum, with board, residence and laundry. The appointment is for six months, commencing 1st April, 1940, with eligibility for re-election. Candidates must be fully qualified and registered.

Applications, stating age and nationality, together with copies of recent testimonials, should be forwarded to the undersigned not later than Friday, 1st March, 1940.

B. R. CARTER, Secretary-Superintendent.

Hull Royal Infirmary.

Applications are invited for the post of HOUSE SURGEON (Male) at the SUTTON BRANCH HOSPITAL. Salary at the rate of £160 per annum, with residence, board, and laundry. The post is recognised for the F.R.C.S. Examinations and for the M.S. Branch I (Surgery) Examination of the University of London. The appointment will be for a period of six months but will be determinable at any time by one month's notice on either side.

Applications, with particulars of age, experience, and nationality, and accompanied by copies of recent testimonials, should be addressed to the undersigned.

R. J. CARLESS, House Governor.

Royal Berkshire Hospital, Reading.

The Board of Management invite applications for the post of ASSISTANT SURGICAL REGISTRAR.

Candidates must be Fellows of one of the Royal Colleges of Surgeons of the British Empire or Surgical Graduates of one of the Universities of the British Empire and their names entered on the Medical Register.

The elected candidate will be appointed for the period ending on the first Tuesday in March, 1941, and will be eligible for re-election.

Canvassing by or on behalf of a candidate will disqualify.

Applications, with copies of not more than four testimonials, must reach the Secretary not later than 9 A.M. on Friday, March 1st, 1940.

The election will take place on Tuesday, March 5th, 1940.

H. E. RYAN, Secretary and House Governor.

County Borough of St. Helens.

ASSISTANT MEDICAL OFFICER FOR A.R.P.

Applications are invited for the appointment of Assistant Medical Officer of Health (Male) for Air Raid Precautions duties in St. Helens. The Officer appointed will be required to take full charge, under the Medical Officer of Health, of the Casualties Service of the Borough and should therefore have good organising ability. Experience in the Services or similar work or experience in the work of Voluntary First Aid Organisations is desirable but not essential. The Medical Officer appointed may also be required to carry out such other Public Health duties as the Medical Officer of Health may direct.

The appointment is at present temporary and would be subject to one month's notice on either side and is subject to the provisions of the Local Government Superannuation Act, 1937.

The salary will be at the rate of £600 per annum.

Forms of application may be obtained from the undersigned, to whom they should be returned, accompanied by copies of three recent testimonials, not later than 23rd February, 1940.

Canvassing members of the Council or Committees of the Corporation will be a disqualification.

FRANK HAUXWELL, Medical Officer of Health.

Town Hall, St. Helens, 2nd February, 1940.

Huddersfield Royal Infirmary.

(321 Beds.)

Male CASUALTY OFFICER required to commence duty on March 11th, 1940.

Salary £200 per annum, with board, residence, and laundry. Appointment for six months. Prospect according to qualifications, experience, and satisfactory service. The Hospital is officially recognised for the surgical practice required of non-members before admission to the Final Fellowship Examination of the Royal College of Surgeons of England.

The post of Casualty Officer is next in seniority to that of Resident Surgical Officer.

Applications, with copies of three recent testimonials, to be addressed to the undersigned immediately.

H. J. JOHNSON, General Superintendent and Secretary.

Nottingham Children's Hospital.

Applications are invited for the post of RESIDENT HOUSE SURGEON (Woman). The salary will be at the rate of £150 per annum, with apartments, board, and laundry. The appointment will be for six months, duties to commence as early as possible after 28th February, 1940.

Applications, together with testimonials, stating age, qualifications, and experience, to be sent to the Honorary Secretary, 1, King John's-chambers, Bridlesmith Gate, Nottingham, on or before Tuesday, February 20th. Selected candidates will be required to attend at the Hospital for a personal interview.

Nottingham Children's Hospital.

Applications are invited for the post of RESIDENT HOUSE PHYSICIAN (Woman). The salary will be at the rate of £150 per annum, with apartments, board, and laundry. The appointment will be for six months, duties to commence on April 1st, 1940.

Applications, together with testimonials, stating age, qualifications, and experience, to be sent to the Honorary Secretary, 1, King John's-chambers, Bridlesmith Gate, Nottingham, on or before Tuesday, February 20th. Selected candidates will be required to attend at the Hospital for a personal interview.

The Bolton Royal Infirmary.

(318 Beds, including Two Auxiliary Hospitals.)

ASSISTANT RESIDENT SURGICAL OFFICER (Male).

Applications are invited for the above appointment.

Duties comprise of the responsibility of the whole of the Casualty and Orthopædic Departments and deputising for the R.S.O. in his absence.

The post is recognised by the Royal College of Surgeons of England for the Final Fellowship Examination.

Salary £200 per annum, with board, residence, and laundry.

Applications, stating age, nationality, and experience, together with three copies of testimonials, to reach the undersigned no later than Friday, the 23rd February, 1940.

H. AUBREY FROGGATT, Superintendent-Secretary.

Lancashire County Council.

WRIGHTINGTON HOSPITAL, APPLEY BRIDGE.

JUNIOR ASSISTANT MEDICAL OFFICER.

Applications are invited for the post of Junior Assistant Medical Officer (Male, unmarried) for the Wrightington Hospital, which contains 206 Beds for non-pulmonary tuberculosis (adults and children) and 20 beds for "combined" pulmonary and non-pulmonary cases. Salary £300 per annum, together with board, residence, and laundry.

The appointment will be for six months or for twelve months as may be agreed upon.

The medical staff consists of medical superintendent, two assistants, two consultant orthopædic surgeons, and other visiting surgeons. There are excellent facilities for reading for M.D.

Forms of application and conditions of appointment obtainable from Central Tuberculosis Officer, County Offices, Preston. Letters to be marked "Wrightington M.O."

Closing date 27th February, 1940.

GEORGE ETHERTON, Clerk of the County Council.

County Offices, Preston.

District Infirmary, Ashton-under-Lyne.

(200 Beds, mainly Surgical.)

Wanted, CASUALTY OFFICER (Male or Female) to take up duties immediately.

Salary at the rate of £180 per annum, with the usual residential emoluments.

The appointment is for six months, with possibility of renewal. Candidates must be fully qualified and duly registered.

Applications, with copies of testimonials, should be sent at once to the undersigned.

FRANK OLIVER, General Superintendent and Secretary.

9th February, 1940.

Aberdeen Royal Infirmary.

The Board of Directors invite applications for the post of REGISTRAR in the ORTHOPÆDIC DEPARTMENT.

The post is a full-time one; salary £200 per annum, with "living-out" allowance at the rate of £78 per annum.

Six copies of applications (and testimonials), stating age, qualifications, and experience, should be lodged not later than 10 A.M. on 4th March, 1940, with the undersigned, from whom further particulars may be obtained.

JOHN A. MCCONACHIE, Clerk and Treasurer.

1, Albyn-place, Aberdeen.

City of Birmingham.

ROMSLEY HILL SANATORIUM. (120 Beds.)

RESIDENT ASSISTANT MEDICAL OFFICER.

Applications are invited for a Resident Assistant Medical Officer (Male). Candidates must be unmarried and have held a resident hospital appointment since qualifying. Experience in the diagnosis and treatment of tuberculosis will be a recommendation.

The appointment will be limited in the first instance to six months, and, subject to satisfactory service, may be extended for a further six months. The salary will be at the rate of £240 per annum for the first six months and £275 per annum for the second six months, with board and residence in each case.

Forms of application may be obtained from the Medical Superintendent, Romsley Hill Sanatorium, Halesowen, near Birmingham, and should be returned to him not later than 29th February, 1940.

F. H. C. WILTSHIRE, Town Clerk.

City of Birmingham.

DUDLEY ROAD HOSPITAL.
(926 Beds.)

Applications are invited from fully qualified Medical Practitioners for whole-time appointment as JUNIOR MEDICAL OFFICER (Male) at the Dudley Road Hospital, Birmingham.

The appointment will be for a period of six months but may be extended for a further period of not exceeding six months. Salary at the rate of £200 per annum and full residential emoluments.

Further particulars may be obtained from the Medical Superintendent at Dudley Road Hospital, to whom applications, stating age, experience, and qualifications, with copies of recent testimonials, should be forwarded not later than Thursday, 22nd February, 1940.

Oldham Royal Infirmary.

(183 Beds—4 House Surgeons.)

Two HOUSE SURGEONS required for a period of six months. One to commence as soon as possible, the other to commence duty on the 2nd March, 1940.

Salary at the rate of £175 per annum, with board, residence, and laundry.

Applications, stating age, experience, and qualifications, together with copies of three recent testimonials, to be forwarded to the undersigned.

F. W. BARNETT, General Superintendent and Secretary.

King George Hospital, Ilford

(Near London).

RESIDENT ANÆSTHETIST (Male) required for a period of six months. Salary at the rate of £150 per annum.

Forms of application may be obtained from the undersigned, to whom they should be returned, duly completed, as soon as possible.

(Signed) G. AUSTIN HEPWORTH,
Secretary and Superintendent.

The Jessop Hospital for Women,

SHEFFIELD.
FIRTH AUXILIARY, NORTON.

Applications are invited from registered Medical Practitioners for the post of RESIDENT MEDICAL OFFICER.

The appointment will be for six months commencing 1st March, 1940, subject to renewal for a further six months, with salary at the rate of £150 per annum, plus board, residence, and laundry.

Previous Obstetrical experience is desirable.

The Firth Auxiliary Hospital contains 47 Beds, of which 23 are set apart for the treatment of Puerperal Sepsis, the remainder being for Antenatal and Gynæcological cases.

Applications should be lodged with the undersigned, addressed to the Jessop Hospital for Women, Sheffield, immediately.

DAVID OSWALD, Superintendent and Secretary.

Cassel Hospital for Functional

NERVOUS DISORDERS.
Swaylands, Penshurst, Kent.

LOCUM TENENS (Male) required for the above hospital from May to September inclusive. Previous experience in the treatment of the psychoneuroses essential. Salary eight guineas a week with board, residence, and laundry.

Applications to be sent in as soon as possible to the Medical Director, enclosing testimonials.

Royal Sussex County Hospital,

BRIGHTON, 7. (395 Beds.)

HOUSE PHYSICIAN (Male) required 1st March, 1940. Salary £150 per annum, with board, residence, and laundry. Candidates must hold medical and surgical qualifications of the British Empire, and be duly registered under the Medical Acts. They must be unmarried, and when elected under thirty years of age.

Applications, with copies of recent testimonials, should reach the undersigned as soon as possible.

L. L. W. LANCASTER-GAYE, Secretary-Superintendent.

York Dispensary.

Applications are invited for the post of RESIDENT MEDICAL OFFICER (Female) to commence duties as soon as possible. As there are two vacancies, applications from doctors knowing each other would be welcomed.

The Resident staff consists of two Medical Officers, whose duties are to visit and attend the sick poor in their own homes, and to assist the honorary staff.

Candidates must be duly qualified, registered and unmarried. Experience in the administration of anæsthetics is essential.

Salary £200 per annum, with board, lodging, and attendance, with an allowance towards car expenses, and for laundry.

Applications, with testimonials, to be sent on or before February 24th to—

JOHN C. PETERS, Secretary.

4, New-street, York.

City of Leicester.

CITY GENERAL HOSPITAL.

APPOINTMENT OF DEPUTY MEDICAL SUPERINTENDENT AND SURGEON.

The Health Committee of the City of Leicester invite applications from duly qualified Medical Men for the appointment of Resident Deputy Medical Superintendent and Surgeon. Applicants must possess the F.R.C.S. or equivalent surgical qualification.

Salary will be at the rate of £500 per annum, with residential emoluments.

The appointment will be for one year, in the first instance, and will be reviewed at the end of that time.

The post will be designated under the Local Government Superannuation Act, 1937.

Form of application may be had from the undersigned, from whom further particulars may be obtained, and must be received on or before the 4th March next, together with copies of three recent testimonials.

E. K. MACDONALD, Medical Officer of Health.

Health Department, Grey Friars, Leicester, February, 1940.

The Nottingham Hospital for Women.

HOUSE SURGEON (Male or Female) required to commence duties on 1st April, 1940. Appointment for period of not less than six months. Salary at the rate of £150 per annum, with board, residence and laundry. Previous hospital experience essential.

Applications, stating age, experience, and qualifications, accompanied by copies of three recent testimonials, to be sent forthwith to the Secretary, Mr. A. L. MORELL, Burton-buildings, Upper Parliament-street, Nottingham.

East Suffolk and Ipswich Hospital.

(380 Beds.) 8 Residents.

Wanted by the end of March HOUSE PHYSICIAN, HOUSE SURGEONS AND CASUALTY OFFICER.

Salary for each office at the rate of £144 per annum, with board, apartments, and laundry.

Posts of First and Second House Surgeon recognised by the Royal College of Surgeons.

Contract period six months.

Applications from British Male candidates, stating age, qualifications, and experience, together with copies of three recent testimonials, to be sent to the undersigned.

ARTHUR GRIFFITHS, Secretary.

The Hospital, Ipswich, 17th February, 1940.

City of Leicester.

ISOLATION HOSPITAL.

RESIDENT MEDICAL OFFICER.

Resident Medical Officer (Male) required for the City Isolation Hospital and Sanatorium, Groby-road.

Appointment for a period of six months, renewable if service is satisfactory for a further six months.

Salary at the rate of £300 per annum, with the usual residential emoluments. The officer appointed may be required to assist with infant welfare work.

Applications, on forms to be supplied, to be sent to the undersigned not later than the 26th instant.

E. K. MACDONALD, Medical Officer of Health.

Health Offices, Grey Friars, Leicester,
17th February, 1940.

The Prince of Wales's Hospital,

PLYMOUTH.

Applications are invited for the post of SENIOR HOUSE SURGEON for duty at the DEVONPORT SECTION. (64 Beds.)

Salary £130 per annum, with board, residence, and laundry.

Appointment is tenable for six months and is subject to renewal. Duties to commence 5th March.

Applicants must be registered under the Medical Acts.

The Hospital is officially recognised for the surgical practice required before admission to the Final Fellowship Examination of the Royal College of Surgeons of England.

Applications, stating age and qualifications, with copies of three recent testimonials, must reach the undersigned by the 24th February.

ARTHUR R. CASH, General Superintendent.

12th February, 1940.

The Prince of Wales's Hospital,

Greenbank-road, PLYMOUTH.
(264 Beds.)
(Formerly South Devon and East Cornwall Hospital.)

There are vacancies at the above Hospital for the two following appointments—HOUSE PHYSICIAN, and RESIDENT ANÆSTHETIST AND HOUSE SURGEON to the SPECIAL DEPARTMENTS, and applications are invited for these posts.

Salary £120 per annum, with board, residence, and laundry.

Appointment is tenable for six months and is subject to renewal. Duties to commence 10th March.

The Hospital is officially recognised for the surgical practice required before admission to the Royal Fellowship Examination of the Royal College of Surgeons of England.

Applicants must be registered under the Medical Acts. Applications, stating age and qualifications, with copies of three recent testimonials, to reach the undersigned not later than 21st February.

ARTHUR R. CASH, General Superintendent.

5th February, 1940.

North Staffordshire Royal Infirmary,

STOKE-ON-TRENT.
(412 Beds.)

HOUSE SURGEON (General).

The Committee invites applications for the above post.

Salary at the rate of £150 per annum, with board, residence, and laundry.

The appointment will be made for six months, renewable.

Previous hospital surgical experience essential.

Applications, stating age and experience, with copies of two recent testimonials, to be sent to the undersigned immediately.

THORNBURROW GIBSON, Secretary and House Governor.

12th February, 1940.

Surrey County Council.

PUBLIC HEALTH DEPARTMENT.

KINGSTON COUNTY HOSPITAL. (530 Beds.)

RESIDENT ASSISTANT MEDICAL OFFICER.

Applications are invited from registered Medical Practitioners for the appointment of Resident Assistant Medical Officer at the Kingston County Hospital, Kingston-on-Thames.

The Medical Officer appointed must have had previous experience as House Surgeon.

The appointment, which is recognised for the F.R.C.S. (Eng.), is for a period of six months, renewable for a further period of six months, and the salary is at the rate of £250 per annum, together with full residential emoluments valued at £125 per annum.

Applications, stating age, qualifications, and experience, and enclosing copies of not more than three recent testimonials, should be addressed to the Medical Superintendent, Kingston County Hospital, Wolverton-avenue, Kingston-on-Thames, so as to be received not later than 24th February, 1940.

DUDLEY AUKLAND, Clerk of the Council.

County Hall, Kingston-upon-Thames, 16th February, 1940.

Herefordshire General Hospital,

HEREFORD.
(152 Beds.)

Immediate applications are invited for the post of HOUSE SURGEON (Male) in charge of CASUALTY and EAR, NOSE, AND THROAT DEPARTMENTS.

Salary at the rate of £100 per annum, with board, residence, and laundry.

Applications, stating age and qualifications, together with copies of three recent testimonials, to be sent to the undersigned.

T. W. UPTON, Secretary.

Experimental Pathologist. Applications are invited for a post on the Medical Research Staff of a British Industrial firm. The post is full time and permanent. Applicants must hold a recognised medical qualification, and must have had some experience of medical research in a University laboratory. The initial salary offered is from £600 to £1000 per annum, according to qualifications and experience.

Applications, in which a brief account of qualifications should be given, may be sent to Address No. 695, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2. No testimonials need accompany such an application.

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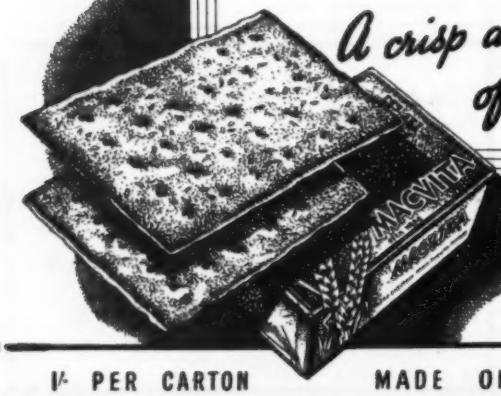

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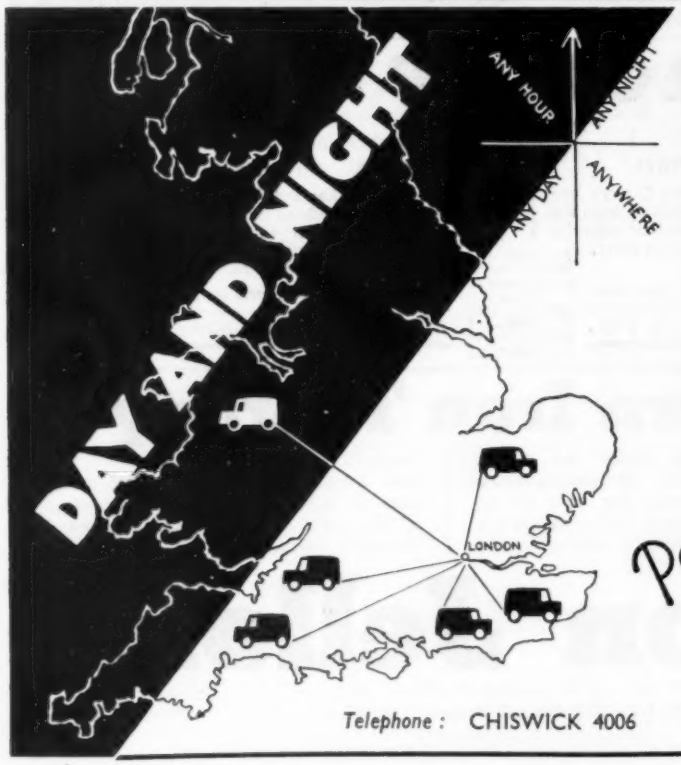

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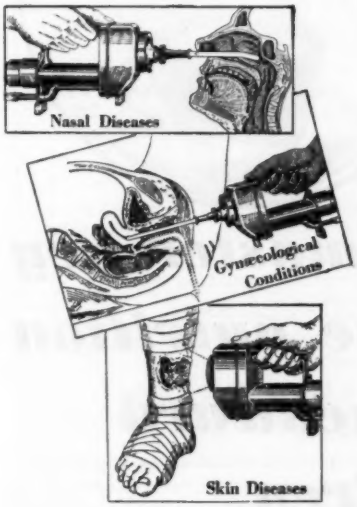

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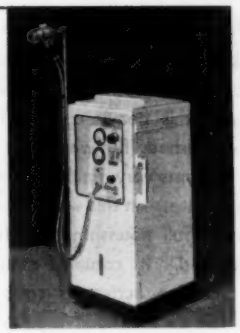

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(HEWLETT'S)

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Under present conditions there is a danger of vitamin deficiencies becoming sufficiently serious to be a menace to general health; there is not only a deficiency in dietary intake, but the demand, particularly of the Vitamin B complex, is increased under present stress. It has been authoritatively stated that vitamin deficiency must be made good from extra-dietary sources (Lancet, January 6th, 1940, p. 35).

Radio-Malt provides Vitamins A and D, as well as the B complex, in an ideal form, particularly for children. In addition to its content of vitamins, Radio-Malt contains a high proportion of carbohydrate; thus the addition of a spoonful of Radio-Malt to the daily diet supplements the present limited supplies of sugar.

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Hexamethylenetetramine-Anhydromethylenecitrate	0·50
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Piperazine Tartrate	0·25
Lithium Carbonate	1·00
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Effervescent Base	ad 100

DIRECTIONS

One teaspoonful to be taken morning and night in a tumblerful of water.

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LONDON HOSPITAL CATGUT

SPECIAL ANNOUNCEMENT

FEBRUARY, 1940

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The recently prevailing situation, due to abnormal demands, created an *impasse* between production and supply, which, however, we are now happy to announce, has been overcome.

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LONDON HOSPITAL CATGUT IS CONTRIBUTING ITS MAXIMUM WAR EFFORT BY MAINTAINING SUPPLIES, AND CONTINUING TO OFFER THE PROFESSION—THE WORLD'S MOST DEPENDABLE LIGATURES

LONDON HOSPITAL CATGUT

OBTAINABLE FROM ALL LEADING SURGICAL EQUIPMENT HOUSES

IN states of nervous tension there is frequently found an associated impairment of assimilation and nutrition. Conversely it is observed that when measures are taken to provide an easily assimilated food which meets every metabolic need, the patient's condition undergoes definite improvement.

For this purpose, both as an emergency measure and as a regular routine, there is nothing which rivals 'Ovaltine.' This tonic food beverage is a unique combination of malted barley, full cream milk and new-laid eggs from the world-famous 'Ovaltine' Farms. The manufacture is carried out by exclusive extraction processes *in vacuo*, at low temperature, and in such a way that all the important dietetic qualities are fully conserved.

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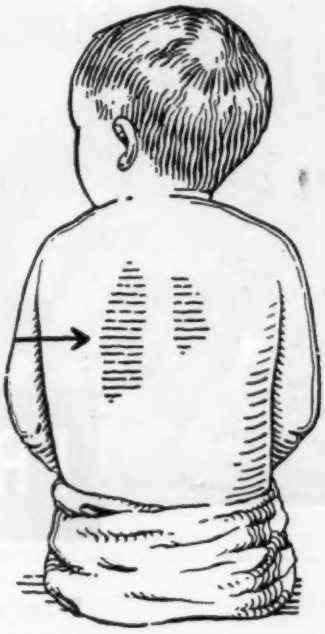

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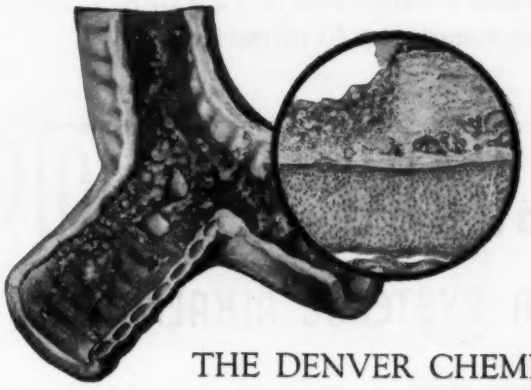
Especially in such cases as Pneumonia, Bronchitis, and Broncho-Pneumonia, where the least possible disturbance of the little patient is desirable, only one application of the Dressing in 24-36 hours is often all that is necessary.



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(PARENTERAL)

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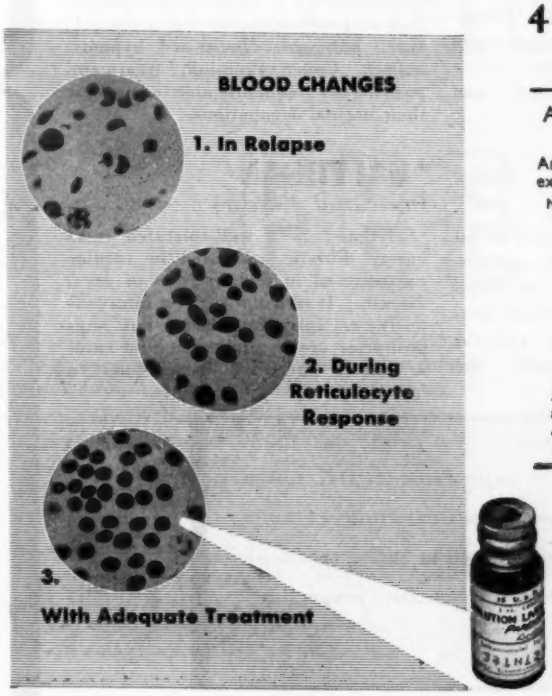

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10	26- 52	3·3	5·16
4	53-104	3·9	5·26
15	105-156	3·2	5·18
2	157-208	3·9	5·21

Reprinted from "The Use of Concentrated Liver Extracts in Pernicious Anæmia" by William P. Murphy, M.D. and Isabel Howard, Jo. A.M.A., January 14, 1939, Vol. 112, pp. 106-110.

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FOR NATURAL SOUND SLEEP

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SONERYL acts rapidly, inducing, within half an hour of administration, from six to eight hours of restorative sleep, followed by refreshed awakening.

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Supplied in containers of 25 tablets and boxes of suppositories.

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FOLLOWING INFLUENZA, ETC.

Vitamin B tonic

In 'Metatone' the alterative effects of the glycerophosphates are reinforced by the inclusion of Vitamin B_1 and a small amount of strychnine. It is serviceable alike for patients who are below par as a result of nutritional disturbances, are convalescing from acute illness such as influenza, etc., or operations, or are "run down," through overwork, anxiety or worry. One of the most striking features observed after the administration of 'Metatone' is the rapid return of normal appetite and feeling of general well-being.

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In tins of 12, 8½d., 24, 1/2 and bottles of 100, 4/-.
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VITEOLIN	A preparation of vitamin E, for the treatment of habitual and spontaneous abortion. Potency is expressed in terms of weight of the pure vitamin (tocopherol). Each 3 mimim capsule is standardised to contain 6 mgm. of tocopherol—a potency 15-30 times greater than that of wheat-germ oil.	*Capsules, boxes of 25, 100 and 500.*
OSTOCALCIUM	Provides calcium in its most assimilable and palatable form. The addition of vitamin D ensures full utilization. Each tablet contains 7½ grains calcium sodium lactate, 2½ grains calcium phosphate, and 500 i.u. of Ostelin vitamin D (Calciferol G.L.)	*Tins of 50, 100, 500 and 1,000.*
ANTE and POST-NATAL		
CALDEFERRUM	A threefold dietary supplement during pregnancy and lactation. The need for additional intake of iron, calcium and vitamin D is well provided by the accepted routine of 4 Caldeferrum tablets daily. The daily dose of 4 tablets contains iron, 25 mgm: calcium 0.5 gm.: vitamin D, 2,000 i.u	*Bottles of 50, 100, 500 and 1,000.*
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ERBOLIN	For routine administration after the third stage of labour. Each capsule contains an exact dose of powdered defatted ergot. Erbolin supersedes liquid ergot, being constant in effect, tasteless, and stable for at least 2 years.	*Capsules in bottles of 25, 100, 500 and 1,000.*
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MINADEX	An enjoyable reconstructive tonic, composed of three groups of therapeutic agents. Each fluid ounce contains; Ferri et Ammon. Cit. 13½ grs.; Mang. Glycerophosph. 1/25 gr.; Cupr. Sulph. 1/25 gr. Calc. Glycerophosph. 2 grs. Pot. Glycerophosph. 1/5 gr. Sod. Glycerophosph. 1/10 gr. Vitamin D 3,000 i.u. Vitamin A 18,000 i.u.	*In 6 oz. and 12 oz. bottles and 80 oz. winchesters.*
PHYSOLACTIN	An active lactogenic preparation derived from pituitary and presented as a concentrate in aqueous solution, to stimulate or increase the flow of breast milk. Results usually apparent 24-36 hours after injection.	*In 15 cc. bottles.*

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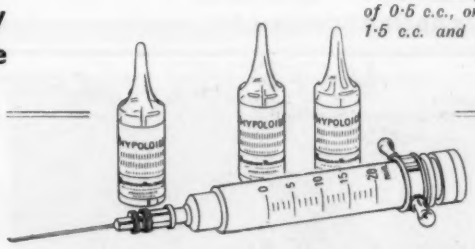

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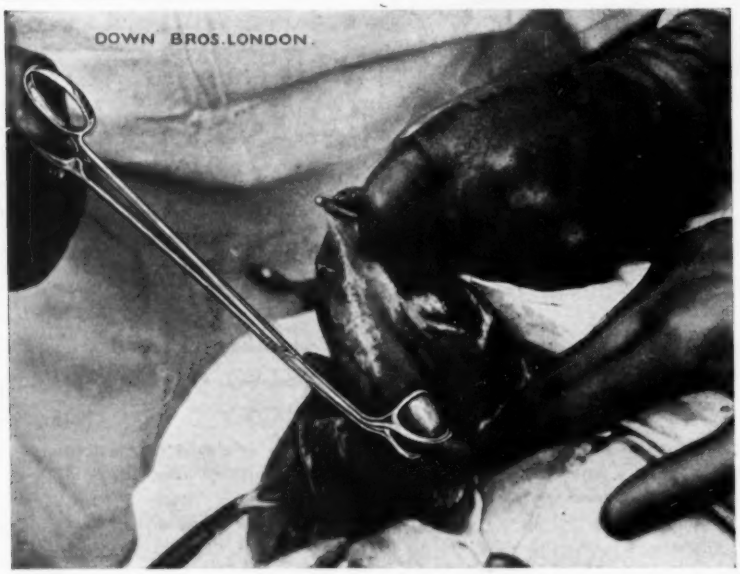

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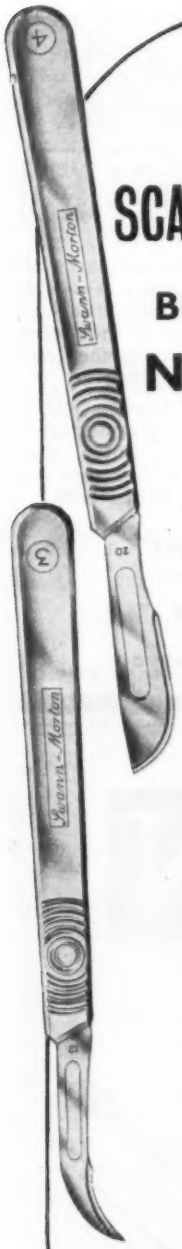

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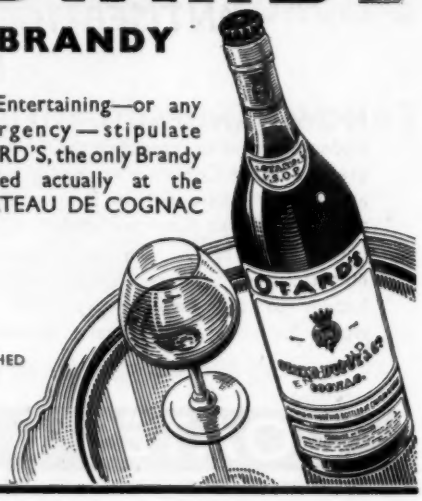

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Medical Superintendent: R. Y. KEERS, M.D. Inclusive terms seven guineas per week.

Telephone: Cults 107. For prospectus apply to the Secretary.

CRICHTON ROYAL, DUMFRIES

For NERVOUS AND MENTAL DISORDERS

Separate Villa for patients suffering from the effects of alcoholism and drug addiction. Every facility for complete investigation and individual treatment on the most modern lines. Fully equipped gymnasium, golf course, and indoor swimming pool. Specially trained occupational and recreational therapists. Private rooms, suites, and special nurses available. As the hospital is well endowed terms are exceptionally moderate, e.g., First Department from 3 guineas per week, Second Department, 2 and 2½ guineas per week. Voluntary and certified patients are received. Medical Certificates given anywhere in the British Isles are valid for admission of patients. *For prospectus, necessary forms, and further information apply to :—*

Physician Superintendent, P. K. McCowan, J.P., M.D., F.R.C.P., D.P.M., Barrister-at-Law. *Tel.* Dumfries 1119.

"STRATHMORE"

FILSHAM PARK
ST. LEONARDS-ON-SEA

A PRIVATE NURSING HOME for the Treatment of TUBERCULOSIS (both sexes). Standing in own grounds 200 feet above sea level. Sheltered from north and east. Outstanding sea and land views all rooms. Individual treatment, complete privacy. Revolving modern chalets. Electric light and fires and radio (earphones) all rooms and chalets. Fully qualified nursing staff. A "home from home." Resident proprietors.

BROCHURE ON REQUEST — *'Phone:* HASTINGS 1127 — *'Grams:* "STRATHMORE" ST. LEONARDS-ON-SEA

COURT HALL, KENTON, near EXETER

FOR THE TREATMENT OF EIGHT LADIES, VOLUNTARY, TEMPORARY AND CERTIFIED PATIENTS

CLIFFDEN, TEIGNMOUTH

FOR EARLY AND CONVALESCENT CASES Recreational Therapies are held daily by skilled Leaders

The house stands high with spacious balconies and extensive views of the South Devon Coast. Beautiful garden. Own Dairy in 25 acres. Private road to beach. There is also a charming house, EBWORTHY, MANATON, DARTMOOR, situated in 20 acres, 1100 ft. up for bracing moorland air.

Resident Physicians—BERTHA M. MULES, M.D., B.S. ANNE S. MULES, M.R.C.S., L.R.C.P.

Telephones—STARCROSS 59 and TEIGNMOUTH 289

SHAFTESBURY HOUSE

FORMBY-BY-THE-SEA
Nr. LIVERPOOL

Specially built and licensed for the care and treatment of a limited number of Ladies and Gentlemen suffering from NERVOUS and MENTAL breakdown. Voluntary and certified patients received. Ladies also admitted as Temporary Patients without certification. Terms moderate. *Apply*, RESIDENT PHYSICIAN, who may be seen in Liverpool, by appointment. *Tel. No.* 8 *Formby.*

HAYDOCK LODGE,

NEWTON-LE-WILLOWS, LANCASHIRE.

For the reception and treatment of PRIVATE PATIENTS of both sexes of the UPPER AND MIDDLE CLASSES suffering from Mental and Nervous Disorders, Alcoholism and Drug addiction, either voluntarily, temporarily, or under certificate. Patients are classified in separate buildings according to their mental condition. Situated in park and grounds of 400 acres. Self-supported by its own farm and gardens in which patients are encouraged to occupy themselves. Every facility for indoor and outdoor recreation. For terms, prospectus, etc., apply MEDICAL SUPERINTENDENT. *'Phone:* Ashton-in-Makerfield 7311. *Tele. Address:* Street, Ashton-in-Makerfield.

ST. ANDREW'S HOSPITAL

FOR NERVOUS AND MENTAL DISORDERS,

NORTHAMPTON

FOR THE UPPER AND MIDDLE CLASSES ONLY.

PRESIDENT: THE MOST HON. THE MARQUESS OF EXETER, K.G., C.M.G., A.D.C.

MEDICAL SUPERINTENDENT: THOMAS TENNENT, M.D., M.R.C.P., D.P.H., D.P.M.

This Registered Hospital is situated in 130 acres of park and pleasure grounds. Voluntary patients, who are suffering from incipient mental disorders or who wish to prevent recurrent attacks of mental trouble; temporary patients, and certified patients of both sexes are received for treatment. Careful clinical, bio-chemical, bacteriological, and pathological examinations. Private rooms with special nurses, male or female, in the Hospital or in one of the numerous villas in the grounds of the various branches can be provided.

WANTAGE HOUSE

This is a Reception Hospital in detached grounds with a separate entrance, to which patients can be admitted. It is equipped with all the apparatus for the complete investigation and treatment of Mental and Nervous Disorders by the most modern methods; insulin treatment is available for suitable cases. It contains special departments for hydrotherapy by various methods, including Turkish and Russian baths, the prolonged immersion bath, Vichy Douche, Scotch Douche, Electrical baths, Plombieres treatment, etc. There is an Operating Theatre, a Dental Surgery, an X-Ray Room, an Ultra-violet Apparatus, and a Department for Diathermy and High-frequency treatment. It also contains Laboratories for bio-chemical, bacteriological, and pathological research. Psychotherapeutic treatment is employed when indicated.

MOULTON PARK

Two miles from the Main Hospital there are several branch establishments and villas situated in a park and farm of 650 acres Milk, meat, fruit, and vegetables are supplied to the Hospital from the farm, gardens, and orchards of Moulton Park. Occupational therapy is a feature of this branch, and patients are given every facility for occupying themselves in farming, gardening, and fruit growing.

BRYN-Y-NEUADD HALL

The seaside house of St. Andrew's Hospital is beautifully situated in a Park of 330 acres, at Llanfairfechan, amidst the finest scenery in North Wales. On the North-West side of the Estate a mile of sea coast forms the boundary. Patients may visit this branch for a short seaside change or for longer periods. The Hospital has its own private bathing house on the seashore. There is trout-fishing in the park.

At all the branches of the Hospital there are cricket grounds, football and hockey grounds, lawn tennis courts (grass and hard courts), croquet grounds, golf courses, and bowling greens. Ladies and gentlemen have their own gardens, and facilities are provided for handicrafts, such as carpentry, etc.

For terms and further particulars apply to the Medical Superintendent (TELEPHONE: No. 2356 and 2357 Northampton), who can be seen in London by appointment.

PECKHAM HOUSE, 112, Peckham Road, London, S.E.15

Telegrams: "Alleviated, London." **Telephones: Rodney 2641 and 2642.**

The above House is for the care and treatment of persons suffering from mental diseases and nervous disorders. Certified voluntary and temporary patients are received. Separate houses for treatment and accommodation of special cases adjoin the Institution. Occupational therapy, physical drill, and other forms of modern treatment. There is a seaside branch, Kearsney Court, near Dover, to which patients may be sent for treatment or on holiday. Motor drives are arranged when required. Tennis courts. Entertainments, dances, and indoor amusements held throughout the year. Terms from £3 3s. per week. Illustrated prospectus and further particulars can be obtained from the MEDICAL SUPERINTENDENT.

CAMBERWELL HOUSE

Telegrams: "PSYCHOLIA, LONDON." **33, PECKHAM RD., LONDON, S.E.5.** Telephone: Rodney 4242 (2 lines).

For the treatment of MENTAL DISORDERS.

Also completely detached Villas for Mild Cases, with private suites if desired. Voluntary Patients received. Twenty acres of Grounds. Hard and Grass Tennis Courts, Putting Greens, Bowls, Croquet, Squash Rackets, Recreation Hall with Badminton Court, and all indoor amusements, including Wireless and other Concerts, Occupational Therapy, Calisthenics, and Dancing Classes. X-ray and Actino-therapy, Prolonged Immersion Baths, Operating Theatre, Pathological Laboratory, Dental Surgery, and Ophthalmic Department. Chapel. **Shock and also modified Insulin Therapy.**

Senior Physician: DR. HUBERT JAMES NORMAN, assisted by a resident Medical Staff, and visiting Consultants.

An illustrated Prospectus, giving fees which are strictly moderate, may be obtained upon application to the Secretary.

The Convalescent Branch is Hove Villa, Brighton, and is 200 feet above sea level.

THE COTSWOLD SANATORIUM

First opened in 1898 and rebuilt in 1925 on the Cotswold Hills seven miles from Cheltenham, for the Treatment of Pulmonary and all other forms of Tuberculosis. Aspect S.S.W., sheltered from North and East, elevation 800 feet. Pure bracing air, SPECIAL TREATMENT by artificial PNEUMOTHORAX (X-ray controlled). TUBERCULINS, and ULTRA-VIOLET RAYS is available when necessary without extra charge. X-RAY plant, Fully Equipped Dental Department, Electric Light Radiators, hot and cold basins and Wireless in all rooms. Up-to-date drainage. Full day & night Nursing Staff. **Terms: 5 to 7½ Guineas a week inclusive.**

Med. Supt.: GEOFFREY A. HOFFMAN, B.A., M.B., T.C. Dub. *Asst. Phys.:* MARGARET A. HARRISON, M.B., B.S. Lond. *Cons. Laryngologist:* G. N. BARKER, F.R.C.S. Edin., D.L.O. *Cons. Dent. Surgeon:* GEORGE V. SAUNDERS, L.D.S.R.C.S. Lond. *Phone:* 81 & 82 Witcombe. Apply: *The Secretary, The Cotswold Sanatorium, Cranham, Gloucester. Telegrams:* "Hoffman Birdlip."

PRIOR PLACE SANATORIUM

HEATHERSIDE, CAMBERLEY, SURREY.

FOR THE TREATMENT OF PULMONARY TUBERCULOSIS

Well situated on high ground and surrounded by pines and heather.
All rooms are fitted with electric light, wash basins with hot and cold water, and radiators.
X ray plant. Day and night nursing staff.

RESIDENT MEDICAL SUPERINTENDENT: DR. H. O. BLANFORD, to whom application for admission can be made.

CHEADLE ROYAL HOSPITAL, Cheadle, Cheshire.

This REGISTERED HOSPITAL, with a SEASIDE BRANCH at Colwyn Bay, N. Wales, is for the treatment and care of those of the Upper and Middle Classes suffering from MENTAL AND NERVOUS DISEASES.

The Hospital is governed by a COMMITTEE, appointed by the TRUSTEES of the Manchester Royal Infirmary.

In addition to the Main Buildings there are separate villas. Extensive grounds. Hard and grass tennis courts, cricket and croquet grounds, and a court for badminton. There are also wireless installations. Golf may be had within easy distance. Occupational Therapy.

VOLUNTARY, TEMPORARY, AND CERTIFIED PATIENTS received.

The Hospital is nine miles from Manchester, 50 minutes by rail from Liverpool, and 3½ hours from London.

For terms and further particulars apply to the Medical Superintendent, who may be seen in Manchester BY APPOINTMENT. *Telephone: Gatley* 2231 (3 lines).

BROMPTON HOSPITAL
and FRIMLEY SANATORIUM

PAYING PATIENTS RECEIVED

BOTH MEDICAL and SURGICAL CASES

5 to 8 guineas per week at the Hospital. 3 to 4 guineas per week at the Sanatorium

APPLY TO THE SECRETARY:—BROMPTON HOSPITAL, S.W.3

THE OLD MANOR SALISBURY

A Private Hospital for the Care and Treatment of those of both sexes suffering from MENTAL DISORDERS.

Extensive grounds. Detached Villas. Chapel. Garden and Dairy Produce from own farm. Terms very moderate.

CONVALESCENT HOME AT BOURNEMOUTH Detached Villas standing in 12 acres of ornamental grounds, with tennis courts, etc., which Voluntary, Temporary or Certified Patients may visit by arrangement for long or short period.

Illustrated Brochure on application to the Medical Superintendent. The Old Manor, Salisbury. Telephone: Salisbury 3216 and 3217.

NORTHUMBERLAND HOUSE

GREEN LANES,

FINSBURY PARK, N.4

A PRIVATE HOSPITAL for the treatment of mental and nervous illnesses. Conveniently situated and easy of access from all parts. Six acres of ground facing Finsbury Park. Voluntary and Temporary Patients received without certification. Occupational Therapy; Psychotherapy, and other modern forms of treatment. Air-raid Shelters have been provided.

Telephone: Stamford Hill 2688. *Telegrams:* "SUBSIDIARY, LONDON."

Convalescent Home, KEARSNEY COURT, DOVER.

For further particulars apply to the MEDICAL SUPERINTENDENT.

HOLLOWAY SANATORIUM VIRGINIA WATER

A Registered Hospital for the Treatment of MENTAL DISORDERS of the EDUCATED CLASSES. Founded by THOMAS HOLLOWAY in 1885.

This Institution is situated in a beautiful and healthy locality within easy reach of London. It is fitted with every comfort. Patients can have Private Bedrooms and Special Nurses as well as the use of General Sitting Rooms, at moderate rates of payment. Voluntary Patients can be admitted.

There is a Branch Establishment at CANFORD CLIFFS, BOURNEMOUTH, where Patients can be sent for a change and be provided with all the comforts of a well-appointed home.

For Terms, apply to—

The RESIDENT MEDICAL SUPERINTENDENT, St. Ann's Heath, Virginia Water, SURREY

HEIGHAM HALL, NORWICH

A PRIVATE MENTAL HOME situated in 14 acres of well-wooded grounds. For Ladies and Gentlemen suffering from Nervous or Mental Illness. Voluntary Patients, Temporary Patients, and Patients under Certificates are admitted for Treatment. Fees: from 4 guineas a week upwards, according to requirements. A few vacancies exist for Ladies and Gentlemen at reduced fees on the recommendation of the Patient's own Physician.

Apply to Dr. J. A. SMALL.

Telephone: 80 Norwich. Telegrams: Small, 80 Norwich.

SPRINGFIELD HOUSE

'Phone: BEDFORD 3417. **Near BEDFORD**

For Mental Cases with or without Certificates.

Ordinary Terms: Five Guineas per week (including Separate Bedrooms for all suitable cases without extra charge).

For forms of admission, &c., apply to the Resident Physician, CEDRIC W. BOWER.

INTERVIEWS IN LONDON BY APPOINTMENT.

THE ARCHER NERVE TRAINING COLONY

LANGLEY RISE, KING'S LANGLEY, HERTS.

Started 35 years ago by the late Mrs. William Archer for the special treatment of **FUNCTIONAL NERVOUS DISORDERS** by a system of Relaxation correlated with training in Nerve Control. Home life in separate houses in charming grounds; 20 miles from London; Chalets for resting. Eurhythmics, Voice Production, Occupational Therapy, etc. **RECEPTION AREA, OFFICIAL AIR-RAID SHELTERS INSTALLED.**

All applications to the Secretary, King's Langley. Telephone: King's Langley 7519. The "**FRANCES ARCHER**" Centre, 30, Dorset Square, N.W.1, is temporarily closed.

UNIVERSITY EXAMINATION POSTAL INSTITUTION

Founded in 1882 by E. S. WEYMOUTH, M.A.

Postal or Oral Preparation for all Medical Examinations.

SOME SUCCESSES

M.D. (Lond.), 1901-39 (11 Gold Medallists 1913-39) ..	**427**
M.S. (Lond.), 1901-39 (including 4 Gold Medallists) ..	**24**
M.B., B.S. (Lond.), *Final*, 1901-39 (completed exam.)..	**368**
F.R.C.S. (Eng.), 1901-39 .. Primary **300**; Final	**240**
D.P.H. (various), 1901-39 (completed exam.)	**366**
F.R.C.S. (Edin.), 1901-39	**90**
M.R.C.P. (Lond.), 1901-39	**342**
M.R.C.S., L.R.C.P., *Final*, 1901-39 (completed exam.)..	**728**

M.D. (various), by Thesis. Many Successes.

D.O.M.S., D.L.O., D.P.M., &c. Many Successes.

MEDICAL PROSPECTUS (47 pages),

sent gratis, along with List of Tutors, &c., on application to the Principal, 17, Red Lion-square, London, W.C.1. (Telephone: Holborn 6313.)

East Ham Memorial Hospital,

Shrewsbury-road, E.7.

Applications are invited for the post of HOUSE PHYSICIAN (Male). The appointment is for six months commencing 1st April, 1940. Salary at the rate of £150 per annum, with board, residence, and laundry.

Applications, stating age, nationality, experience, and full particulars, together with copies of three testimonials, should reach the undersigned by 26th February, 1940.

E. G. FENNER, Acting Secretary.

Charing Cross Hospital,

W.C.2.

SURGICAL REGISTRAR.

The Council invite applications from candidates who must be registered Medical Practitioners (Male) for the post of Second Surgical Registrar. Honorarium £150 per annum.

A copy of the regulations can be obtained from the undersigned, to whom applications, together with copies of three testimonials, must be submitted not later than first post on Monday, February 26th, 1940.

GEO. J. JONES, Secretary.

Charing Cross Hospital, London, W.C.2.

Woolwich and District Hospital

ASSOCIATION (INCORPORATED),
Memorial Hospital, Shooters Hill, London, S.E.18.
(General Hospital—112 Beds.)

The Board of Management invites applications from suitably qualified Male candidates for the post of JUNIOR RESIDENT MEDICAL OFFICER for a period of six months with effect from April 1st, 1940.

Remuneration will be at the rate of £133 6s. 8d. per annum, plus board, residence, and laundry.

Application should be made on the prescribed form, obtainable from the undersigned. The closing date for the receipt of applications is Monday, March 11th, 1940.

R. S. G. HUTCHINGS, Secretary.

The South London Hospital,

Clapham Common, S.W.4.

Applications are invited from Medical Women for the undermentioned appointment:—

HOUSE SURGEON

for a period of six months from 1st April, 1940. Salary at the rate of £100 per annum, with board, residence, and laundry.

Candidates are requested to call on members of the Hon. Medical Staff before Tuesday, 19th March, by which date applications and copies of testimonials must reach the Secretary at the Hospital.

London County Council.

Applications invited from Medical Practitioners of at least one year's standing for undermentioned positions. Candidates must have held resident appointment in a general hospital for at least six months. Married quarters not available.

TEMPORARY ASSISTANT MEDICAL OFFICERS (Class I).
Salary £350–£25–£425, with board, lodging, and washing.

‡(*a*) ARCHWAY HOSPITAL, Archway-road, Highgate, N.19. Medical duties, experience of pædiatrics desirable.
(*b*) DULWICH HOSPITAL, East Dulwich Grove, S.E.22. General duties, obstetrical experience desirable.
*(*c*) FULHAM HOSPITAL, St. Dunstan's-road, Hammersmith, W.6.
(*a*) Surgical duties.
(*b*) Medical duties, experience of pædiatrics desirable.
* Two vacancies.
(*d*) HACKNEY HOSPITAL, Homerton High-street, E.9. Casualty Officer, experience in orthopædics desirable.
(*e*) LAMBETH HOSPITAL, Brook-drive, Kennington-road, S.E.11. Surgical duties.
(*f*) MILE END HOSPITAL, Bancroft-road, Mile End, E.1. Surgical duties, experience in gynæcology desirable.
(*g*) ST. ANDREW'S HOSPITAL, Devons-road, Bow, E.3. Medical duties, with anæsthetics.
(*h*) ST. CLEMENT'S HOSPITAL, 2A, Bow-road, E.3. Medical duties, with experience of mental diseases.
(*i*) ST. GEORGE-IN-THE-EAST HOSPITAL, Raine-street, Wapping, E.1. Surgical duties, experience in obstetrics desirable.
(*j*) ST. GILES' HOSPITAL, St. Giles'-road, Camberwell, S.E.5. General duties, surgical experience desirable.
(*k*) ST. JOHN'S HOSPITAL, St. John's Hill, S.W.11. Medical duties, with treatment of mental diseases.
‡(*l*) ST. MARY ABBOTS HOSPITAL, Marloes-road, Kensington, W.8. Medical duties.
‡(*m*) ST. NICHOLAS' HOSPITAL, 79, Tewson-road, Plumstead, S.E.18. Medical duties, experience of tuberculosis desirable.
(*n*) ST. PETER'S HOSPITAL, Fulbourne-street, Whitechapel, E.1. Surgical duties.
‡ No accommodation for a woman.

Application forms obtainable (stamped addressed foolscap envelope necessary) from Medical Officer of Health, Staff Division 2, County Hall, S.E.1, returnable by 11th March.

Canvassing disqualifies.

London County Council.

Applications invited from Medical Practitioners of at least one year's standing to undermentioned position. Experience in a resident appointment in a general hospital for at least six months desirable. Married quarters not available.

QUEEN MARY'S HOSPITAL FOR CHILDREN, CARSHALTON, SURREY (1284 Beds). There are special departments for rheumatic and orthopædic conditions, for congenital malformations, and for nutritional diseases.

TEMPORARY ASSISTANT MEDICAL OFFICER (Class II).
Salary £250, with board, lodging, and washing.

Application forms obtainable (stamped addressed foolscap envelope necessary) from Medical Officer of Health, Staff Division 2, County Hall, S.E.1, returnable by 11th March.

Canvassing disqualifies.

Golden Square Throat, Nose, and Ear

HOSPITAL, London, W.1.

HOUSE SURGEON (Male) required to commence duties April 1st.

Salary £100 per annum, with board, residence, and laundry.

Applications, stating age, qualifications, and experience, together with copies of three testimonials, should be sent to the undersigned on or before March 11th.

J. H. YOUNG, Secretary-Superintendent.

The London Homœopathic Hospital

(Incorporated by Royal Charter),
Great Ormond-street and Queen-square, W.C.1.
CASUALTY CLEARING STATION
SECTOR IV
EMERGENCY HOSPITAL SERVICE

VACANCY FOR HOUSE SURGEON.

The Board of Management invite applications for the appointment of House Surgeon, now vacant.

The appointment is one of four resident medical posts which occur periodically during the year and is for a period of six months, with salary at the rate of £100 per annum and board, apartments, and laundry.

Candidates must be legally qualified and have been registered for not more than six months.

Applications, stating age, with copies of testimonials, to be sent to the undersigned.

L. J. KNOWLES, Secretary.

King Edward Memorial Hospital,

Mattock-lane, Ealing, W.13.

CASUALTY OFFICER AND DEPUTY RESIDENT MEDICAL OFFICER (Male) required for 1st April, 1940. Six months' appointment with possibility of re-election for a further period. Salary £225 per annum, with usual residential emoluments.

Applications, stating age, experience, and qualifications, together with copies of two recent testimonials, should be sent to the undersigned by the 8th March, 1940.

R. A. MICKELWRIGHT, House Governor.

19th February, 1940.

The London Chest Hospital,

Victoria Park, E.2.
(Bus, Tram, and Rail, Cambridge Heath, L.&N.E. Railway.)

A vacancy for a HOUSE PHYSICIAN (Male) will occur on 1st April, 1940. Six months' appointment. Salary at the rate of £100 per annum. Board, residence, and laundry provided.

Applications, with copies of testimonials (three), should be sent to the Secretary on or before Wednesday, 6th March.

The Salvation Army,

The Mothers' Hospital, Lower Clapton-road, Clapton, E.5.

Applications are invited from Medical Women for the post of SENIOR RESIDENT MEDICAL OFFICER—vacant April 1st, 1940. Salary £150 per annum, with board, residence, and laundry. The appointment is for twelve months.

Applications, with testimonials must be sent to the Secretary on or before Monday, March 4th, 1940.

FRED HAMMOND, Secretary.

East Ham Memorial Hospital,

Shrewsbury-road, E.7.

Wanted immediately, Part-time PATHOLOGIST (temporary).

For further particulars apply to the Secretary.

Central London Throat, Nose and Ear

HOSPITAL, Gray's Inn-road, W.C.1.

RESIDENT HOUSE SURGEON (Male).

There will be a vacancy for a House Surgeon to enter on duty on the 1st April. The appointment will be for a period of nine months: three months as Third House Surgeon, three months as Second House Surgeon, and three months as First House Surgeon. Remuneration at the rate of £75 per annum.

Applications, accompanied by copies of not more than three recent testimonials, should be sent to the undersigned before the 28th February.

JOHN H. YOUNG, Secretary-Superintendent.

Queen's Hospital for Children,

Hackney-road, E.2.

HOUSE PHYSICIAN required 14th March, 1940.

CASUALTY OFFICER required 14th March, 1940. Six months' appointments. Salary at rate of £100 per annum, with board, lodging and laundry. Candidates must have had some previous experience and be prepared to participate in the Emergency Hospital arrangements in connection with which beds have been reserved and in respect of which additional remuneration is payable.

Applications must be made on forms to be obtained from the undersigned and be sent in with copies of not more than three testimonials on or before 6th March, 1940.

CHARLES H. BESSELL, Secretary.

Queen Charlotte's Maternity

HOSPITAL, Marylebone Road, N.W.1.

Applications are invited from registered Medical Practitioners for the following appointments:—

(a) ASSISTANT RESIDENT MEDICAL OFFICER (Male). Salary £80 per annum.

(b) RESIDENT ANÆSTHETIST AND DISTRICT RESIDENT MEDICAL OFFICER. Salary £90 per annum. Allowance for car, with board, residence and laundry allowance (4s. weekly).

Appointments to commence on 1st April, 1940. The Assistant Resident Medical Officer is appointed for three months, and on completion will be expected to apply for the post of Senior Resident Medical Officer (salary £100 per annum). Obstetric experience desirable.

Applications, stating age, medical school, qualifications and previous appointments, should be sent to the Secretary by the 28th February, together with copies of three testimonials.

SEYMOUR LESLIE, Acting Secretary-Superintendent.

Derbyshire Royal Infirmary,

DERBY.

HONORARY NEUROLOGICAL SURGEON.

Applications are invited for the post of Honorary Neurological Surgeon to the Infirmary. These will only be considered from Surgeons who have had considerable experience of Neurological Surgery.

Candidates must be qualified in accordance with the Rules of the Institution and must undertake, if appointed, not to practise any other branch of medicine or surgery in or out of the Infirmary.

The appointment in the first instance will be to the Honorary Assistant Medical Staff, and will be made subject to the accepted limitations imposed by the War Emergency.

Further information, if required, may be obtained from the undersigned.

Applications must be received not later than Wednesday, 13th March, 1940.

By Order,
ARTHUR TAYLOR, Superintendent and Secretary.

24th February, 1940.

Locum Tenens urgently required.

GRIFFITHS' MEDICAL AGENCY,
30, Bridge Street,
Newport, Mon.

Rhondda Urban District Council.

ASSISTANT MEDICAL OFFICERS.

Applications are invited from registered Medical Practitioners, not exceeding forty-five years of age, to fill vacancies for one permanent and one temporary Assistant Medical Officer, under the direction and supervision of the Council's Medical Officer of Health and School Medical Officer, at a salary in each case of £500, rising by annual increments of £25 to £700 a year, the first annual increment being payable on the 1st April, 1941; travelling expenses necessarily incurred in the performance of the duties will also be allowed. Candidates should have had not less than three years' professional experience subsequent to registration, and the possession of a Diploma in Public Health is considered desirable.

The appointments will be subject to the passing of a medical examination and will be terminable by two calendar months' notice on either side. The officers appointed will be required to reside within the Rhondda Urban District and will not be allowed to engage in private practice.

Applications are to be made on forms obtainable from the Medical Officer of Health, Tydfil House, Pentre, Rhondda, by whom they must be received endorsed "Assistant Medical Officer," and accompanied by copies of three recent testimonials, not later than Friday, 8th March, 1940.

D. J. JONES, Clerk of the Council.

The Council Offices, Pentre, Rhondda, 20th February, 1940.

Manchester Royal Infirmary.

RESIDENT MEDICAL OFFICER.

The Board of Management of the Manchester Royal Infirmary invite applications for the above appointment.

Applicants must not be less than twenty-five years of age. They must be registered, and hold a Medical and Surgical qualification.

The appointment is for twelve months, renewable for a period of one year.

Salary £200 per annum, with board, residence, and laundry allowance.

Full information is obtainable from the undersigned, to whom applicants must send fifteen copies of their application and fifteen copies of testimonials on or before 9 A.M. on Thursday, 7th March, 1940.

By order.
F. J. CABLE, General Superintendent and Secretary.

19th February, 1940.

University of Oxford.

NUFFIELD COMMITTEE FOR THE ADVANCEMENT OF MEDICINE.

The Committee invites applications for the post of GRADUATE ASSISTANT in the Department of Pathology at the Radcliffe Infirmary. Candidates must be medically qualified. The appointment is for one year in the first instance with the possibility of renewal, and the initial salary will be not less than £251 nor more than £300, according to qualifications and experience. The person appointed will take part in the routine morbid anatomical work of the department and will have opportunities for original work.

The appointment will date from 17th April, 1940, or such other near dates as may be arranged.

Applications must reach Dr. ROBB-SMITH, Radcliffe Infirmary, not later than the first post on Saturday, 9th March, 1940, and must be accompanied by a full statement of qualifications and the names of not more than three referees. Testimonials are not required.

Enquiries about the post should also be made to Dr. Robb-Smith.

County Borough of Bournemouth.

PUBLIC ASSISTANCE INSTITUTION,
CHRISTCHURCH.

EMERGENCY MEDICAL HOSPITAL.

Applications are invited from Medical Practitioners (Male) for the temporary appointment of RESIDENT MEDICAL OFFICER.

A section of the Hospital is likely to be used in the near future for the treatment of service cases and approximately 200 Beds will ultimately be provided. The person appointed will be required to devote his whole time to the duties. The salary will be at the rate of £300 per annum, together with board, apartments, and attendance.

The appointment will be terminable by one month's notice on either side.

Applications, stating age, experience, &c., accompanied by copies of not more than three recent testimonials, should be sent to the Medical Officer of Health, Town Hall, Bournemouth, not later than first post on March 5th, 1940.

A. R. EATON, Town Clerk.

February, 1940.

The King Edward VII Memorial,

ELIOT HOSPITAL, HAYWARDS HEATH.
(Incorporated.)

Applications are invited for the post of HONORARY PHYSICIAN. Candidates must be Fellows or Members of the Royal College of Physicians, London, residing and practising within a convenient distance from the Hospital.

Applications, with copies of testimonials, should be sent to the undersigned not later than 31st March next.

C. HALES, Hon. Secretary.

W.P. 1.1941

City of Winchester.

APPOINTMENT OF MEDICAL OFFICER OF HEALTH.

The Council invite applications from duly registered Medical Practitioners for the post of Medical Officer of Health (including School Medical Officer, Medical Superintendent of the Council's Isolation Hospital and Police Surgeon).

The salary will be at the rate of £850 per annum, rising subject to satisfactory service at the end of two years by annual increments of £50 to £1000 per annum. In addition an allowance for travelling within the city of £50 per annum will be made. The gentleman appointed will be required to provide a car and to devote the whole of his time to the duties of the Office.

Applicants should not be more than forty years of age and should have had previous experience in Public Health under a local authority.

The appointment will be subject to sections 108 and 110 of the Local Government Act, 1933, the Sanitary Officers (Outside London) Regulations, 1935, and the Local Government Superannuation Act, 1937. The successful candidate will be required to pass a medical examination.

A statement of the principal duties and conditions of appointment may be obtained on application to the undersigned.

Applications, stating age, qualifications, and particulars of present and past appointments, together with copies of not more than three recent testimonials, should be delivered to the undersigned, endorsed "Medical Officer of Health," not later than the 8th March, 1940.

J. A. CROMPTON, Town Clerk.

The Guildhall, Winchester, 12th February, 1940.

St. Paul's Eye Hospital,

Old Hall-street, LIVERPOOL.

HOUSE SURGEON required immediately. Six months' appointment. Salary £145 per annum, with board, residence, &c.

Applications, with copies of testimonials, should be sent to the Secretary on or before 2nd March.

The Children's Hospital, Sheffield

(INC.). (157 Beds.)

Applications are invited for the post of HOUSE PHYSICIAN vacant 1st March, 1940.

The appointment is for six months. Salary £100 per annum with board, residence, and laundry.

Candidates (unmarried) who must possess registered qualifications, should forward applications stating age, nationality, &c., together with copies of three recent testimonials, to the undersigned.

T. H. G. GARTLAND, Superintendent and Secretary.

Staffordshire County Council.

TEMPORARY ASSISTANT MEDICAL OFFICER (Woman).

Applications are invited from Medical Women for the above, temporary post during the war. Preference will be given to those who have held residential Hospital appointments, and who have the Diploma of Public Health.

The person appointed will work under the direction of the County Medical Officer and the duties of the Officer will include School Medical and Maternity and Child Welfare work.

The salary will be at the rate of £600 per annum, rising by annual increments of £50 to £800 per annum.

The appointment will be subject to three calendar months' notice on either side.

Forms of application may be obtained from the undersigned and should be returned by first post on the 29th February, 1940, together with copies of not more than three testimonials.

H. L. UNDERWOOD, Clerk of the County Council.

County Buildings, Stafford, 12th February, 1940.

City of Birmingham.

ROMSLEY HILL SANATORIUM. (120 Beds.)

RESIDENT ASSISTANT MEDICAL OFFICER.

Applications are invited for a Resident Assistant Medical Officer (Male). Candidates must be unmarried and have held a resident hospital appointment since qualifying. Experience in the diagnosis and treatment of tuberculosis will be a recommendation.

The appointment will be limited in the first instance to six months, and, subject to satisfactory service, may be extended for a further six months. The salary will be at the rate of £240 per annum for the first six months and £275 per annum for the second six months, with board and residence in each case.

Forms of application may be obtained from the Medical Superintendent, Romsley Hill Sanatorium, Halesowen, near Birmingham, and should be returned to him not later than 29th February, 1940.

F. H. C. WILTSHIRE, Town Clerk.

Cassel Hospital for Functional

NERVOUS DISORDERS.

Swaylands, Penshurst, Kent.

LOCUM TENENS (Male) required for the above hospital from May to September inclusive. Previous experience in the treatment of the psychoneuroses essential. Salary eight guineas a week with board, residence, and laundry.

Applications to be sent in as soon as possible to the Medical Director, enclosing testimonials.

Corporation of Barking.

RESIDENT MEDICAL OFFICER.

Applications are invited before the 29th February, 1940, from qualified Medical Practitioners for the designated appointment of Resident Medical Officer at the Council's Upney (Maternity) Hospital, comprising 24 Beds.

Previous medical appointments in a maternity hospital and experience in antenatal work are essential, and preference will be given to candidates holding or reading for membership of the College of Obstetrics and Gynæcology.

Salary £350–£25–£450, plus emoluments, valued at £150 per annum.

Particulars of duties and application forms may be obtained from the undersigned.

S. A. JEWERS, Town Clerk.

Town Hall, Barking, Essex.

Doncaster Royal Infirmary.

(185 Beds.)

Applications are invited for the post of HOUSE SURGEON to the EAR, NOSE, AND THROAT and OPHTHALMIC DEPARTMENTS and RESIDENT ANÆSTHETIST.

The appointment is for six months.

Salary at the rate of £150 per annum, with the usual emoluments.

Applications, accompanied by copies of three recent testimonials, should be forwarded to the undersigned immediately.

R. LANCASTER, Secretary-Superintendent.

Addenbrooke's Hospital, Cambridge.

Applications are invited for the post of RESIDENT ANÆSTHETIST AND EMERGENCY OFFICER (Male). The appointment will be for three months from April 1st, 1940. Salary at the rate of £130 per annum, with board, residence, and laundry.

Candidates, who must be unmarried and duly registered, are requested to forward their applications, stating age, qualifications, &c., together with copies of not more than four recent testimonials, to the undersigned on or before Wednesday, March 6th, 1940.

J. A. BEARDSALL, Secretary-Superintendent.

City of Leicester.

CITY GENERAL HOSPITAL.

APPOINTMENT OF DEPUTY MEDICAL SUPERINTENDENT AND SURGEON.

The Health Committee of the City of Leicester invite applications from duly qualified Medical Men for the appointment of Resident Deputy Medical Superintendent and Surgeon. Applicants must possess the F.R.C.S. or equivalent surgical qualification.

Salary will be at the rate of £500 per annum, with residential emoluments.

The appointment will be for one year, in the first instance, and will be reviewed at the end of that time.

The post will be designated under the Local Government Superannuation Act, 1937.

Form of application may be had from the undersigned, from whom further particulars may be obtained, and must be received on or before the 4th March next, together with copies of three recent testimonials.

E. K. MACDONALD, Medical Officer of Health.

Health Department, Grey Friars, Leicester, February, 1940.

Lancashire County Council.

WRIGHTINGTON HOSPITAL, APPLEY BRIDGE.

JUNIOR ASSISTANT MEDICAL OFFICER.

Applications are invited for the post of Junior Assistant Medical Officer (Male, unmarried) for the Wrightington Hospital, which contains 206 Beds for non-pulmonary tuberculosis (adults and children) and 20 beds for "combined" pulmonary and non-pulmonary cases. Salary £300 per annum, together with board, residence, and laundry.

The appointment will be for six months or for twelve months as may be agreed upon.

The medical staff consists of medical superintendent, two assistants, two consultant orthopædic surgeons, and other visiting surgeons. There are excellent facilities for reading for M.D.

Forms of application and conditions of appointment obtainable from Central Tuberculosis Officer, County Offices, Preston. Letters to be marked "Wrightington M.O."

Closing date 27th February, 1940.

GEORGE ETHERTON, Clerk of the County Council.

County Offices, Preston.

Aberdeen Royal Infirmary.

The Board of Directors invite applications for the post of REGISTRAR in the ORTHOPÆDIC DEPARTMENT.

The post is a full-time one; salary £200 per annum, with "living-out" allowance at the rate of £78 per annum.

Six copies of applications (and testimonials), stating age, qualifications, and experience, should be lodged not later than 10 A.M. on 4th March, 1940, with the undersigned, from whom further particulars may be obtained.

JOHN A. MCCONACHIE, Clerk and Treasurer.

1, Albyn-place, Aberdeen.

Leigh Infirmary, Lancs.

(86 Beds.)

Applications are invited for the post of JUNIOR HOUSE SURGEON (Male). Salary £150 per annum, with board, residence and laundry. The appointment is for six months, commencing 1st April, 1940, with eligibility for re-election. Candidates must be fully qualified and registered.

Applications, stating age and nationality, together with copies of recent testimonials, should be forwarded to the undersigned not later than Friday, 1st March, 1940.

B. R. CARTER, Secretary-Superintendent.

County Borough of Stockport.

STEPPING HILL HOSPITAL.
(453 Beds.)

RESIDENT ASSISTANT MEDICAL OFFICER.

Applications are invited from duly qualified Medical Practitioners for the post of Resident Assistant Medical Officer (Male) at the above Hospital.

Salary £350 per annum, with board, residence, and laundry.

The appointment will be for one year, and is determinable by one month's notice on either side.

The person appointed will be required to devote the whole of his time to the duties of the office. Experience in Surgery and Obstetrics will be a special recommendation.

Applications, stating age, qualifications, and experience, together with copies of three testimonials, are to be sent to the Medical Officer of Health, Town Hall, Stockport, endorsed "Assistant Medical Officer."

F. KNOWLES, Town Clerk.

Town Hall, Stockport, 16th February, 1940.

Bootle General Hospital, Linacre

Lane, BOOTLE, LIVERPOOL, 20.
(140 Beds.)

RESIDENT MEDICAL OFFICER.

Applications are invited for the above appointment for six months commencing 1st April, 1940.

For the first three months the duties will be that of Casualty Officer, and for the last three months that of House Physician.

Salary £150 per annum, with board, residence, and laundry.

Applicants must be duly qualified and registered under the Medical Acts.

Applications, with copies of testimonials, should be sent to the Secretary-Superintendent as soon as possible.

Bristol Eye Hospital.

1939 { 82 Beds (12 Private Patients).
1245 In-patients, 19,243 Out-patients.

Applications are invited for the post of JUNIOR HOUSE SURGEON. Salary £100 per annum. Senior post available after six months. Vacant 1st April, 1940.

Suitable experience for D.O.M.S.

Applications, stating age and qualifications, &c., with three recent testimonials, to reach the undersigned by 16th March next.

D. M. BABER, Secretary and House Governor.

Royal Victoria Infirmary, Newcastle

UPON TYNE.
(835 Beds.)

The Committee invite applications for the post of RESIDENT MEDICAL OFFICER (Male) (open appointment).

Applicants must be Members of the Royal College of Physicians of London.

The R.M.O. is the senior resident; his duties include general charge of the Admission Department and the supervision of medical emergencies.

The appointment is for one year and is renewable annually for a period not exceeding three years.

The salary is at the rate of £350 per annum.

Full information can be obtained by application to the undersigned, to whom applications, stating age, qualifications, and experience, accompanied by not more than three testimonials, should be sent on or before Saturday, 9th March, 1940.

S. DUNSTAN, House Governor and Secretary.

16th February, 1940.

Royal Isle of Wight County Hospital,

RYDE, I.W.

HOUSE PHYSICIAN wanted, with care of Casualty and Special Departments, for April 1st—Lady, unmarried, qualified and registered. Salary at the rate of £130 a year, with board, residence, and laundry.

Apply, stating age and nationality, enclosing copies of testimonials, to Secretary before Saturday, March 9th. Return third-class fare for selected candidates.

A. S. GORDON, Secretary.

The Royal Scottish National

INSTITUTION, LARBERT.

ASSISTANT MEDICAL OFFICER (Male) required for the above Institution which is for the care and treatment of adult and juvenile mental defectives of all grades. The commencing salary is £350 per annum, with board, lodging, and laundry.

Apply, with single copies of recent testimonials, to the Medical Superintendent, Royal Scottish National Institution, Larbert, Stirlingshire.

The Corbett Hospital,

STOURBRIDGE.
(100 Beds. Special Departments and Visiting Specialist Staff.)

Applications are invited for the post of RESIDENT SURGICAL OFFICER (Male), which will become vacant about the end of March.

The appointment is for a period of one year, but may be renewed annually for a period not exceeding three years. Candidates must possess the F.R.C.S. and be unmarried. Salary at the rate of £200 per annum, with board and laundry.

Applications, together with copies of recent testimonials, stating age, qualifications, and experience, to be sent to the undersigned forthwith.

W. G. H. WESTON, Secretary.

Royal Berkshire Hospital, Reading.

The Board of Management invite applications for the post of ASSISTANT SURGICAL REGISTRAR.

Candidates must be Fellows of one of the Royal Colleges of Surgeons of the British Empire or Surgical Graduates of one of the Universities of the British Empire and their names entered on the Medical Register.

The elected candidate will be appointed for the period ending on the first Tuesday in March, 1941, and will be eligible for re-election.

Canvassing by or on behalf of a candidate will disqualify.

Applications, with copies of not more than four testimonials, must reach the Secretary not later than 9 A.M. on Friday, March 1st, 1940.

The election will take place on Tuesday, March 5th, 1940.

H. E. RYAN, Secretary and House Governor.

Bedford County Hospital.

Wanted at once FIRST HOUSE SURGEON for a term of not less than six months. Must be Male, unmarried, and fully qualified. Salary £155 per annum, with board, lodging, and laundry.

Applications, stating age, nationality, and qualifications, together with three recent testimonials, to be sent to the Secretary, Hon. Medical Staff Committee.

Wanted at once CASUALTY OFFICER for a term of not less than six months. Must be Male, unmarried, and fully qualified. Salary £150 per annum, with board, lodging, and laundry.

Applications, stating age, nationality, and qualifications, together with three recent testimonials, to be sent to the Secretary, Hon. Medical Staff Committee.

Royal Salop Infirmary, Shrewsbury.

APPOINTMENT OF TWO RESIDENT HOUSE SURGEONS.

Applications are invited from fully qualified unmarried Men (preferably from men within six months of registration) for the posts of Resident House Surgeon, vacant immediately. Salary £160 per annum, with board, residence, &c.

The appointments are for six months.

Applications, stating age, qualifications, and nationality, accompanied by copies of three recent testimonials, to be sent to the undersigned immediately.

J. W. NOBLE, Secretary-Superintendent.

Board Room, 14th February, 1940.

Grimsby and District Hospital.

(189 Beds.)

Applications are invited for the post of RESIDENT ORTHOPÆDIC OFFICER (Male). Salary £275 per annum, with board-residence. The appointment is for six months, and may be renewed. Candidates must be registered under the Medical Acts, reside in the Hospital, and have had experience in Orthopædic and Fracture work.

Applications, with copies of not more than three testimonials, to the undersigned at once.

H. B. COATES, Secretary-Superintendent.

15th February, 1940.

The Royal Gwent Hospital, Newport,

MON. (210 Beds.)

There is an Honorary Consultant Staff of 16 members. Six resident appointments, two of which are officially recognised for the surgical practice required before admission to the Final Fellowship Examination of the Royal College of Surgeons (the undermentioned being one). Reasonable surgical experience is available, subject to the ability of the Resident Officer.

Applications are invited for the appointment of SENIOR HOUSE SURGEON. Salary £200 per annum; previous hospital experience is essential (owing to the present holder being called up for military service).

The appointment is for six months, subject to the provisions of the Rules as to notice. Board, residence, and laundry are provided.

Applications should be forwarded to the undersigned at once, stating age, nationality, qualifications, and experience, together with copies of three recent testimonials.

ALAN RUDDLE, Secretary-Superintendent.

The Hospital serves a large area and affords exceptional facilities for clinical experience; it is 2½ hours by train from London.

19th February, 1940.

East Suffolk and Ipswich Hospital.
(380 Beds.) 8 Residents.

Wanted by the end of March HOUSE PHYSICIAN, HOUSE SURGEONS AND CASUALTY OFFICER.

Salary for each office at the rate of £144 per annum, with board, apartments, and laundry.

Posts of First and Second House Surgeon recognised by the Royal College of Surgeons.

Contract period six months.

Applications from British Male candidates, stating age, qualifications, and experience, together with copies of three recent testimonials, to be sent to the undersigned.

ARTHUR GRIFFITHS, Secretary.

The Hospital, Ipswich, 17th February, 1940.

North Staffordshire Royal Infirmary,
STOKE-ON-TRENT.
(412 Beds.)

HOUSE SURGEON (General).

The Committee invites applications for the above post.

Salary at the rate of £150 per annum, with board, residence, and laundry.

The appointment will be made for six months, renewable.

Previous hospital surgical experience essential.

Applications, stating age and experience, with copies of two recent testimonials, to be sent to the undersigned immediately.

THORNBURROW GIBSON, Secretary and House Governor.

12th February, 1940.

The Liverpool Sanatorium,
DELAMERE FOREST, FRODSHAM,
Via WARRINGTON.
(175 Beds.)

ASSISTANT TO THE MEDICAL SUPERINTENDENT.

Applications are invited from Male Practitioners with suitable qualifications for the above-named appointment.

Candidates must be unmarried and preference will be given to applicants who have held resident medical appointments since qualification and have had practical institutional experience in the treatment of pulmonary tuberculosis.

Salary will be at the rate of £225 per annum, with board, quarters, and laundry.

The appointment, which falls vacant on 18th March, is normally tenable for twelve months, but may be extended.

Particulars of duties and full information, together with forms of application, can be obtained from the Medical Superintendent.

Forms completed, with copies of three recent testimonials, should be returned not later than 9th March, 1940, to the Medical Superintendent, Liverpool Sanatorium, Frodsham, via Warrington.

Leicester Royal Infirmary.
(500 Beds.)

There is an immediate vacancy for a
JUNIOR CASUALTY OFFICER.

Salary £100 per annum; seven months' appointment.

Applications should be forwarded forthwith to the House Governor and Secretary.

19th February, 1940.

Leicester Royal Infirmary.
(500 Beds.)
(Staff: 4 H.S.'s, 3 H.P.'s, 2 C.O.'s, 3 Res. Anæsthetists, 1 Res. Radiologist.)

RESIDENT VACANCIES FOR 1ST APRIL.

HOUSE PHYSICIAN. Salary £125 per annum.

ANÆSTHETIST. Salary at the rate of £150 for first six months, £200 per annum for second six months, £250 per annum for third six months, £250 per annum for fourth six months.

Application forms may be obtained from the House Governor and Secretary.

Appointments for six months will be made on 13th March.

19th February, 1940.

Harrogate Royal Bath Hospital.
NATIONAL HOSPITAL FOR RHEUMATIC AND ALLIED DISEASES.

Applications are invited for the post of RESIDENT MEDICAL OFFICER (Male) now vacant. Six months' appointment. Salary at the rate of £200 per annum, with board, residence, and laundry.

Candidates of British nationality should forward applications without delay, stating age and experience, with copies of recent testimonials, to the undersigned.

E. P. L. DIXON, M.A. (Secretary).

Salop County Council.

JUNIOR RESIDENT MEDICAL OFFICER.

Applications are invited for the appointment of Junior Resident Medical Officer at the County Council Hospital at Cross Houses, near Shrewsbury.

The salary will be £150 per annum, with a ration allowance of £150 and emoluments valued at £100 per annum. The appointment will be for twelve months.

Forms of application may be obtained from the County Medical Officer of Health, College Hill, Shrewsbury, and should be returned to the undersigned not later than 9th March, 1940.

W. L. EDGE, Clerk, Salop County Council.

Shirehall, Shrewsbury, 19th February, 1940.

Telephone: HOLborn 1341
ASSOCIATED CLINICAL & ANALYTICAL LABORATORIES LTD.
Staple Inn Buildings (South),
335, HIGH HOLBORN, LONDON, W.C.1
CLINICAL EXAMINATIONS
ANALYSES, AUTOGENOUS VACCINES.
List of Fees, etc., on application to the Medical Superintendent.

The Stockport Infirmary.
(159 Beds.)

Applications are invited for the post of ASSISTANT RESIDENT SURGICAL OFFICER AND CASUALTY OFFICER (Male and unmarried).

Salary £175 per annum, with board, residence, and laundry.

Previous hospital experience essential. The Resident Staff consists of five Resident Officers.

Applications, with copies of three recent testimonials, stating age, nationality, qualifications, and experience, to be sent to the undersigned on or before 27th February. Duties should commence 1st April, 1940.

H. G. PRICE, Secretary-Superintendent.

Stoke Park Colony for Mental DEFECTIVES.

THIRD ASSISTANT MEDICAL OFFICER.

Applications are invited from duly qualified Practitioners for the above appointment. Candidates, who should be single, must have had post-graduate medical experience, and preference will be given to those who have held general hospital appointments. Salary £350 per annum, rising by annual increments of £50 to £450 per annum, together with apartments and board. A further £50 per annum after passing D.P.M.

Applications should be made in writing, with copies of recent testimonials, before April 1st, 1940, to the Secretary, National Institutions for Persons requiring Care and Control, 14, Howick-place, Westminster, S.W.1.

The Royal Infirmary, Sunderland.
(288 Beds.)

HOUSE SURGEON (Male) required for six months from March 9th, 1940. Salary at the rate of £120 per annum, with board, residence, laundry, &c.

Applications, stating age and qualifications, and accompanied by copies of testimonials, to be sent to the undersigned.

M. J. HUNTLEY, House Governor and Secretary.

Resident Casualty Medical Officer
required by MIDDLESEX COUNTY COUNCIL at CENTRAL MIDDLESEX COUNTY HOSPITAL, Acton-lane, N.W.10. Must be registered Medical Practitioner who has held post of House Physician and House Surgeon at a general hospital and has had good all-round, but particularly surgical, experience. Salary £350 per annum, with board, lodging, and laundry. Whole-time duties under Medical Superintendent will include dealing with casualties and admissions to hospital and such other duties as may be required. Appointment, subject to medical examination and to one month's notice, is for six months in the first instance and may be extended for a further six months. Preservation of pension rights under certain Acts.

Applications to the Clerk "B.3" of the County Council, Guildhall, Westminster, S.W.1, enclosing copies of not more than three recent testimonials. No application forms. Relationship to any member or officer of the County Council to be disclosed on application. Last date for applications 9th March. Canvassing, direct or indirect, disqualifies.

Rotherham General Hospital.
(140 Beds.)

HOUSE PHYSICIAN (Male) wanted. Salary £150 per annum, with usual residential emoluments.

Applications, with copies of recent testimonials, to be sent to the undersigned as soon as possible.

T. H. FLETCHER, Secretary.

Addenbrooke's Hospital, Cambridge.

Applications are invited for the post of CASUALTY OFFICER AND SUPERNUMERARY HOUSE OFFICER. The appointment, which will commence early in March, will be for a period of six months, but is terminable at an earlier date by one month's written notice on either side. Salary will be at the rate of £130 per annum, with board, residence, and laundry.

Candidates (Male), who must be unmarried and duly registered, are requested to forward their applications, stating age, qualifications, &c., together with copies of not more than four testimonials, to the undersigned on or before Wednesday, March 6th, 1940.

J. A. BEARDSALL, Secretary-Superintendent.

Northampton General Hospital.
(381 Beds.)

There is a vacancy immediately for a HOUSE SURGEON to the OBSTETRICAL AND GYNÆCOLOGICAL DEPARTMENT, and on the 1st March for a HOUSE SURGEON to the EAR, NOSE, AND THROAT DEPARTMENT.

The salary will be at the rate of £150 per annum, with board, residence, and laundry. Candidates, who must be duly qualified and registered, must be Males and of British nationality.

The successful candidate will be appointed for a period of seven months and will be eligible for re-election for a further period of six months.

Applications, stating age, qualifications, &c., with copies of three testimonials, must reach the undersigned not later than the first post on Wednesday, 28th February.

GORDON S. STURTRIDGE, M.B., Superintendent.

20th February, 1940.

County Borough of West Bromwich.

HALLAM HOSPITAL.
RESIDENT OBSTETRICAL OFFICER.

Applications are invited from candidates who have had previous resident Hospital experience in both general and maternity work.

The duties include conduction of certain Ante-Natal Clinics.

The appointment is for one year, at a salary of £300 per annum, plus usual resident's emoluments. The appointment is terminable by either party giving six weeks' notice, and all fees received by the person appointed will be payable into the funds of the Council.

Applications, stating age, experience, and qualifications, together with copies of three recent testimonials, must be forwarded to the Medical Officer of Health, 2, Lodge-road, West Bromwich, before Wednesday, 6th March, 1940.

G. F. DARLOW, Town Clerk.

Town Hall, West Bromwich, 20th February, 1940.

Royal Hampshire County Hospital,
WINCHESTER.
(239 Beds. 5 Resident Officers.)
Hospital recognised by the Royal College of Surgeons, England.

HOUSE SURGEON.

Applications are invited from fully qualified Men for the above post. Six months' appointment. Salary £100 per annum, with board, residence, and laundry.

Candidates should make application to the undersigned by March 1st, enclosing copies of three testimonials.

H. EWART MITCHELL, Superintendent and Secretary.

The Royal Sea-Bathing
HOSPITAL, MARGATE. (320 Beds.)

Applications are invited from Practitioners within six months of registration for the post of HOUSE SURGEON (Male). The appointment will be for a period of six months at a salary at the rate of £200 per annum, with full board, residence, etc., in addition. The selected candidate will be required to commence his duties on or about 18th March, 1940.

The Hospital is mainly for the treatment of Surgical Tuberculosis, and the duties, therefore, are chiefly surgical.

Applications, stating age and nationality, should be accompanied by copies of recent testimonials and forwarded to the Secretary, R.S.B.H. Offices, 15, York Buildings, Adelphi, W.C.2.

Doctor's Secretary (efficient, Shorthand, and Typing). Free to do morning work, 9–12.30, in Paddington or West End District.—Address No. 697, THE LANCET Office, 7, Adam Street, Adelphi, W.C.2.

Lady Dispenser (qualified) requires post with doctor, institution or hospital. Good experience.—Miss R, 63, London Road, Forest Hill, S.E.

Borough of Nuneaton.

TEMPORARY ASSISTANT SCHOOL MEDICAL OFFICER AND ASSISTANT MEDICAL OFFICER OF HEALTH.

Applications are invited from registered medical practitioners for the temporary post of Assistant School Medical Officer and Assistant Medical Officer of Health at a commencing salary of £500 per annum rising, subject to satisfactory service, to £700 per annum by annual increments of £25 per annum.

The appointment will be terminable by one month's notice on either side.

The successful candidate will be required to pass a medical examination.

Forms of application and conditions of appointment may be obtained from the Medical Officer of Health, Council House, Nuneaton, and must be returned to the undersigned not later than Wednesday, 6th March, 1940.

T. OLDROYD, Town Clerk.

Council House, Nuneaton, 20th February, 1940.

Salford Royal Hospital.
(256 Beds.)

Applications are invited from registered candidates (Male) for Three HOUSE SURGEONS and a CASUALTY HOUSE SURGEON for six months from 1st April next. Salary £125 per annum.

Forms of application, obtainable from the undersigned, must be delivered on or before the 5th March.

By Order of the Board.
H. B. SHELSWELL,
General Superintendent and Secretary.

23rd February, 1940.

Corner House with Surgery, central heating, garage, garden, to be Sold or Let on lease.—179, Manchester-road, Bury, Lancs. Vacant possession June, 1940. Further particulars from Ashworth, 161, St. Annes-road East, St. Annes-on-Sea.

Harley Street: A beautifully furnished and decorated, light, spacious, first-floor front, CONSULTING ROOM, available full or part time. Also fully equipped modern ground-floor DENTAL SURGERY, unit, X-rays, &c., available part time. Name-plate, use of waiting-room, and excellent service at an inclusive moderate rental.—Address, No. 696, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

Nursing Home.—For Sale as a Going Concern, PARK CIRCUS NURSING HOME, 5, Park Circus-place, Glasgow, C.3, which belonged to the late Miss Laura B. Jackson. Thoroughly equipped and well furnished. Assessed rental £150. Feuduty £30 5s.

For further particulars and cards to view apply to Messrs. W. Duncan & Co., C.A., 208, Bath-street, Glasgow.

BRUNTON MILLER ALEXANDER & MARTIN,
Agents for Deceased's Trustees,
146, West Regent-street,
Glasgow, C.2.

X Ray Diagnostic Set, Deep Therapy Set, Electro-Medical Apparatus, and sundry equipment for Sale. Owner serving with H.M. Forces overseas. Reasonable offer accepted.—Address, No. 688, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

Resident Patients.—Doctors desiring accommodation for private patients (mental, neurasthenic, invalid, &c.) may have, post free, illustrated BOOKLET describing residences, &c., of numerous colleagues in all parts—town, country, and seaside—who receive such patients.—Apply, Manager, British Medical Bureau, Tavistock House South, Tavistock-square, London, W.C.1.

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